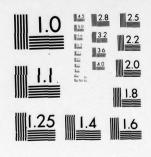
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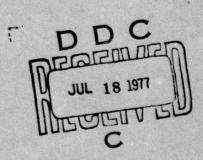
## CONVERSION OF COMPUTER SOFTWARE FOR THE GIMBALLED ELECTROSTATIC GYRO NAVIGATION SYSTEM

Volume II SKC-2000 COMPUTER LISTING

REFERENCE SYSTEMS BRANCH RECONNAISSANCE AND WEAPON DELIVERY DIVISION

FEBRUARY 1977

TECHNICAL REPORT AFAL-TR-77-8, Volume II FINAL REPORT FOR PERIOD MAY 1973 - DECEMBER 1975



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William Mikuleki
WILLIAM MIKULSKI
Project Engineer

FOR THE COMMANDER

WILLIAM E. SHEWHARI Project Engineer

CHARLE

Reconnaissance and Weapon Delivery Division

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The Gimballed Electrostatic Gyro Navigation System (GEANS) conversion effort consisted of the conversion of an assembly language program for the Honeywell HDC-601 computer to another assembly language program for the Singer/Kearfott SKC-2000 computer. The HDC-601 and SKC-2000 were run in real time simultaneously. The SKC-2000 real time executive automatically synchronized with the HDC-601 so both programs ran in parallel, using the same input data from the Inertial Measurement Unit (IUM). Alignment and Navigation output of

	ABSTRACT	(Cont'd	1)							
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ITH AT ION COUNTER
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= 3/32	CU01-CU64	A ACCEL SCALE FACTOR MYSEC/PULSE	Y ACCEL SCALE FACTOR MYSEC/PULSE	Z ACCEL SCALE FACTUR MYSEC/PULSE	X ACCEL BIAS PULSE/SEC	Y ACCEL BIAS PULSE/SEC	Z ACCEL BIAS PULSE/SEC	BIL ACCEL MISALIGNMENT	BIZ ACCEL MISALIGNMENT	BIS ACCEL MISALIGNMENT	M21 ACCEL MISALIGNMENT	822 ACCEL MISALIGNMENT	B23 ACCEL MISALIGNMENT	B31 ACCEL MISALIGNMENT	B32 ACCEL MISALIGNMENT	B33 ACCEL MISALIGNMENT	GYRO TORQUE, G INDEPEN, DYNE-CM	GYRO TORQUE, G INDEPENDYNE-CM	GYAO TORQUE + G INDEPEN+DYNE-CM	G11 GYRO TOKUUE.6 DEPEN.DYNE-CM/SEC**2	G12 GYRO TORUUE, G DEPEN, DYNE-CM/SEC*2	613 GYRO TORQUE.6 DEPEN.DYNE-CM/SEC**2	G21 GYRO TORUVE, G DEPEN, DYNE-CM/SEC**2	622 GYRU TORGUE, G DEPEN, DYNE-CM/SEC++2	G23 GYRO TOMUVE, G DEPEN, DYNE-CM/SEC**2	631 GYRU TORQUE, G DEPEN, DYNE-CM/SEC**2	632 GYRO TURGUE, G DEPEN, DYNE-CM/SEC*2	633 GYRU TORGUE+G DEPEN+DYNE-CM/SEC++2
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03032	CA	CD01	2000	coo3	CU04	5000	9000	2000	COUR	6000	0100	1100	CD12	6013	C014	CD15	0016	C017	6018	6100	0200	C021	C022	6700	6024	5200	CD26	2005
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RAT GYRU TURUUE DYNE-CM		KAT GYRU TURGUE UTNE-CM	SPEED COMP+6 INDEPENDENT DYNE-CM	SPEED COMP.6 INDEPENDENT DYNE-CM	MO-BUNC TANDERSON OF COMME	2	SPEED COMP.G INDEPEN DYNE-CH/M/SEC**2	SPEED COMP.6 INDEPEN DYNE-CM/M/SEC++2	SPEED COAP. G INDEPEN DYNE-CM/M/SEC**2	SPEED COMP.6 INDEPEN DYNE-CM/M/SEC**2	SPEED COMP.6 INDEPEN DYNE-CM/M/SEC**2	SPEED COMP. 6 INDEPEN DYNE-CM/M/SEC ** 2	SPEED COMP. 6 INDEPEN DYNE-CM/M/SEC**2	SPEED COMP. UNDEPEN DYNE-CM/M/SEC**2	SPEED COMP.6 INDEPEN DYNE-CM/M/SEC**2	ALAP RAT SPEED COMP DYNE-CM	ALT MAT SPEED COMP DYNE-CM	STANTING LOCUS PI MADIANS	BETA(12) MISALIGNMENT PI RADIANS	GIMBAL I RESULVER BIAS PI RADIANS	GIMBAL 2 RESULVER BIAS PI RADIANS	GIMBAL 3 RESULVER BIAS PI RADIANS	GIMBAL 4 RESULVER BIAS PI HADIANS	PLATFORM AZIMUTH ALIGN IN PI RADIANS	PLATFORM ELEVATION ALIGN IN PI RADIANS	
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DECRE		95564	DEC64	25.64	10000	0EC64	UEC64	DEC04	0EC64	UEC64	100	DFCot	0EC64	UEC64	UECO4	DECE4	UEC64	DEC64	DEC64	UEC64	DEC64	DEC64	DE CO4	DEC64	0EC64	
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0.0124 29.7 9 00000000 CD59 DEC64 656.0 HUTUR I SPEED 0.0226 29.9 9 00000000 CD60 DEC64 656.0 HUTUR I SPEED 0.02300 30.4 9 00000000 CD61 DEC64 0 BARO ALTITUDE BIAS 0.00134 30.4 9 00000000 CD63 HEX 00015000 ALTIMETER / AHRS FL 0.0135 310 9 00000000 CD63 HEX 00015000 ALTIMETER / AHRS FL 0.0136 310 9 00000000 CD64 DEC64 0 ALTITUDE 0.0136 310 9 0000000 CD64 DEC66 0 BARO ALTITUDE 0.0136 310 9 0000000 CD64 DEC66 0 ALTITUDE 0.0136 310 9 0000000 CD64 DEC664 0 ALTITUDE 0.0137 310 9 0000000 CD64 DEC664 0 ALTITUDE 0.0138 310 9 0000000 CD64 DEC664 0 ALTITUDE 0.0139 310 9 0000000 CD64 DEC664 0 ALTITUDE 0.0136 20739 13 HUAT HSS 4 CONTRIBUTIONININININININININININININININININININ		280	00120	248	•	024E3E18		UEC64	83.001634	1/SCALE FACTUR	PULSES/M/SEC	
### ### ##############################		787	90124	242	2	00000000		DEC64	656.0		LUTIONS/SEC	
0012C 300 9-0000000 COA1 DEC64 23.4125 BARO ALT SCALE FACTOR 4.0400000 COA1 DEC64 0 BARO ALTITUDE BIAS 00134 314 9 0000000 COA3 HEX 00015000 ALTIMETER / AHMS FLAGS 00135 316 9 0000000 COA4 DEC64 0 BALTITUDE ALTITUDE 00135 317 9 00000000 COA4 DEC64 0 BALTITUDE 0000000 COA5 DEC64 0 BALTITUDE 0000000 COA742 13 DEC6FLG 95S 4 LATITUDE 005104 20742 13 DEC6FLG 95S 4 LATITUDE 005104 20742 13 DEC6FLG 95S 4 LATITUDE 005104 20742 13 DEC6FLG 95S 4 LATITUDE 00000 COA762 13 DEC6FLG 95S 12 VAYVAND VZ 00000 COA762 13 DEC6FLG 95S 4 GRAVITY MODEL VARIABLES 00000 COA762 13 DEC6FLG 95S 4 GRAVITY MODEL VARIABLES 00000 COA762 13 DEC6FLG 95S 4 GRAVITY MODEL VARIABLES 00000 COA762 13 DEC6FLG 95S 4 GRAVITY MODEL VARIABLES 00000 COA762 13 DEC6FLG 95S 4 GRAVITY MODEL VARIABLES 00000 COA762 13 DEC6FLG 95S 4 GRAVITY MODEL VARIABLES 00001 COA762 13 DEC6FLG 95S 4 GRAVITY MODEL VARIABLES 0000		SHS		293	•	000000000		DEC64	656.0		LUTIONS/SEC	
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317 00050 318 00054 319 00054 320 00054 321 00056	-		>	822	,	VENTICAL VELOCITY IN LOCAL VENTICAL
320 00054 361 00054 362 00056	200		V. F.	455	<b>*</b> 4 4	NOSTH VELOCITY IN LOCAL VERTICAL
320 00054 321 0005E 322 0005C	2		IND	955	~ ~	
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322 00052	06	1	VXE	355	4	
	*	-	VYE	859	*	
	27	1	VZE.	455	,	
323 00066	102	1	65	559	,	GROUND SPEED
324 00054	106	1	VELZ	988	,	VV**Z+VE**Z+VN**Z
3c5 0006E	110	-	IAM	RSS	~	
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342 0000	4	000000000		DECAG	0.707105781	57 (2) THE'S
210000						
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344 0000C	12	2 000000000		DEC64	0	
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52(5) 7805	7						DOUBLE PRECISION		A0=-1.536227137E-6		41=1.247433376E-8		A2=-1.593661308E-11		A3=0.2		44=0.4		45=0.4285714286		46=1-714285714	11.00311.00	EDUATORIAL MADIUS IN METERS			CONSTANTS										KEFERENCE ROTOR SPEED		=0.00462630681		=0.00654258584	
0-707106781		1.0	0		0		CUNSTANTS		50500666	8698E701	9HF14280	33662759	04722F1E	AEHSEBFB	66666666	35 666666	66666666	3FE66666	60064592	3FEUG6UG	60685212	40EJ8608	6378145.0			FLUATING AND FIXED PUINT CONSTANTS		0.9	0.6	10.0	ANTS		0.00503	21345.0	0.00017	0.469		10004554	3CCBCC23	00d350EF	3CE 43198
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DECK NAME = \*NAV \*

VERSION KROADSUS

*			THIS ADUTINE IS ENTERED EVERY 1/32 SECUND AND PROVIDES FOUR BRANCHES FOR A 1/8 SECOND COMPUTATION CYCLE.																										JALLE CO. T	CALL NAV GUIPUI RUGIINE								
SOURCE		NAVIGATION SUB-EXECUTIVE	SECOND COMPUTATI			I+HUSN-HUSN-	1000 - 1000 M											AMIN' THE STATE OF	PROFILE NEEDEUP IF SU CALL DOM											CALL NAV						NACTHE 1		
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DECK NAME = \* NAV \*

VERSION N20A0503

SOURCE		ACCELEMUMETER BIAS AND SCALE FACTOR CUMPUTATION. ACCELEMUMETER NUN-URTHOGONALITY CUMPENSATION.																					
		ETEN BIAS	I CM	VECSUA	20 *		DVXG	05000	DVXG	MULD31	0+0		Ab	DVXG	0VXI	ZEMO	DVXG	DVX6+2	DVKG+4	DVXG+6	DVXG+5	UVX6+10	ICM .
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DADRES			152	154	156		158	160	162	104	166		163	170	172	174	176	173	160	182	184	185	186
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LINE	410		411	+12	413		414	415	416	417	418		419	074	421	450	443	424	425	975	427	458	453
DIAGNOSTICS LINE ADRES UADRES LC PROGRAM						GENERATED						GENERATED											

DECK NAME=*NAV *	DAUNES LC PHUGHAM	* RUTATION FROM PLATFORM FRAME TO NAVIGATION FRAM	2 000000070 ID PIR	192 & 64040000 ID1 JS MULU31	2 6008 JAU	0100	196 2 000000FZ	198	200 2 0000003E PTR	ATA 24000070 ATA
VERSION K2040503 DECK	DIAGNOSTICS LINE ADRES DADRES LC PRUGHAM		431 6009E	432 000C0	433 000C2	GENERATED	+34 000C4	435 00006	436 000CH	47 00000

UECH NAME = 4144V .

VERSION K20A0503

IODEL			LUAU XR4 WITH AUDRESS OF DIVISOR		LUAD (A.B) WITH DIVIDEND	(DELK/RADE)	SAVE (DELR/RADE)			(JELR/KADE) **2	(UELK/KADE) + (UELK/KADE) **2					STORE OF SHIP TO THE PARTY AND STORE OF THE PARTY OF THE	STORE RESOLI IN P		7**1			P**4				C**1					6.0*S26C				250540-01	7035-0-01				S26C**2		SAVE SZGC**2				9.0*S26C**2	SAVE 19.0050, Copp.
COMPUTATION OF GRAVITY MODEL		IEM	4. HADE . M	DELM+2	DELA	OVFU	TEM+2	TEM	4.1EM.M	MULFU	TEM	TE 4+2	7.5	FONE	ZE + 0	-E.M	2	£.0.5	MULFU	F5+2	P5	MULFU	P3+2	P3	4.C7.4	MULT U	7.07	4.52GC.M	FSIX	2E+0	MULFU	TEMAZ	FEM	25.00	MILE	TEMO+2	TEMO	5266.	5205	MULFU	TE 41+2	TE 41	4. TEMI.M	FNINE	ZERO	MULFU	TEMISS
COMPUTATION	EVEN	212	LOX	LUA	FUB	Sr	STA	STB	LOX	35	AFU	STA	578	LUA	907	27.0	I L	YO.	SC	STA	518	Sr	STA	STB	LUX	55	A II	LUX	LOA	FOH	SC	STA	915	300	51.	STA	STB	LUA	LDB	35	STA	516	LUX	407	LOS	75	STA
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		DODOCC	OUDCE	00000	20000	00000	90000	00000	AG0000.	00000	CUCUE	CODEO	000EZ	40000	00000	00000	OUUEC	OUDEE	0,0000	SHOOD	44000	000F5	0000	DOOFA	2000	20000	00100	90100	00100	00100	0010A	20100	20100	21100	00114	00116	00118	0011A	00110	0011E	00150	22100	00124	00150	00158	0012A	001120
	434	011	441	244	644	777	445	944	177	877	551	420	157	264	564	157	424	15+	424	454	7460	194	295	463	101	504	194	107	69+	027	117	21+	474	475	476	11.7	817	117	084	[x,	284	483	101	445	997	101	488

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00136 310 2 7000094C STB FEF4 00137 314 2 5-4000034 LD9 GGA5-2 00136 315 2 5-4000034 LD9 GGA5-2 00137 316 2 5-6000034 LD9 GGA5-2 00144 320 2 5-6000034 LD9 GGA3-2 00145 330 2 5-6000034 LD9 GGA3-2 00150 330 2 5-6000034 LD9 GGA3-2 00150 330 2 5-60000024 LD9 GGA3-2 00150 330 2 5-60000004 LD9 GGA3-2 00150 330 2 5-600000004 LD9 GGA3-2 00150 330 2 5-600000004 LD9 GGA3-2 00150 330 2 5-600000004 LD9 GGA3-2 00150 330 2 5-60000000004 LD9 GGA3-2 00150 330 2 5-600000000004 LD9 GGA3-2 00150 330 2	7			2	3000	OBE	STA	TEM2+2	SAVE IT
0.0134 312 2 14000034 LD4 GCA5*2 0.0135 314 2 2 54000035 LD5 FEW 4*GCA2*** 0.0136 315 2 552002C LDX 4*GCA2*** 0.0144 324 2 562002C LDX HULFD 0.0144 324 2 76000032 LD5 GCA3*2 0.0144 324 2 76000032 LD5 GCA3*2 0.0144 325 2 2 6000032 LD5 GCA3*2 0.0144 325 2 56000032 LD5 GCA3*2 0.0144 325 2 56000032 LD5 GCA3*2 0.0144 325 2 56000032 LD5 GCA3*2 0.0145 325 2 56000032 LD5 GCA3*2 0.0146 324 2 56000032 LD5 GCA3*2 0.0156 334 2 56000032 LD5 GCA3*2 0.0157 335 2 56000002 LD5 GCA3*2 0.0156 335 2 56000002 LD5 GCA3*2 0.0167 335 2 56000002 LD5 GCA3*2 0.0176 335 2 56000002 LD5 GCA3*2 0.0177 337 2 56000002 LD5 GCA3*2 0.0177 337 2 56000002 LD5 GCA3*2 0.0176 339 2 56000002 LD5 GCA3*2 0.0177 337 2 560000002 LD5 GCA3*2 0.0177 337 2 560000002 LD5 GCA3*2 0.0177 337 2 56000002 LD5 GCA3*2 0.0177 337 2 560000002 LD5 GCA3*2 0.0177 337 2 560000000 LD5 GCA3*2 0.0177 337 2 560000000 LD5 GCA3*2 0.0177 337 2 560000000 LD5 GC	1			2 0	7C000	080	STB	TEMS	
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00140 320 2 6-040000 JS MULFD 00144 324 2 7000004E STA TEM2*2 00146 325 2 3000004E STA TEM2*2 00146 325 2 1-000032 LDA GCA3*2 00147 332 2 5-000012 STA TEM4*2 00146 334 2 70000016 STA TEM4*2 00152 334 2 70000016 STA TEM4*2 00153 334 2 5-0400002 LDA GCA1*2 00154 335 2 5-0400002 LDA GCA1*2 00156 334 2 5-0400002 LDA GCA1*2 00156 334 2 5-0400002 LDA GCA1*2 00156 334 2 5-0400002 LDA GCA1*2 00156 335 2 5-000022 STA TEM3*2 00156 335 2 5-000022 STA TEM3*2 00156 335 2 5-0000022 STA TEM3*2 00157 350 2 5-0000022 STA TEM3*2 00157 350 2 5-0000022 STA TEM3*2 00158 350 2 5-0000022 STA TEM3*2 00158 350 2 5-0000022 STA TEM3*2 00169 350 2 5-0000002 STA TEM3*2 00177 370 2 5-0000002 STA TEM3*2 00178 370 2 5-0000000 STA TEM3*2 00178 370 2 5-0000000 STA TEM3*2 00178 370 2 5-0000000 STA TEM3*3 00178 370 2 5-00000000 STA TEM3*3 00178 370 2 5-000000000 STA TEM3*3 00178 370 2 5-00000000 STA TEM3*3 00178 370 2 5-00000000 STA TEM3*3 00178 370 2 5-00000000 STA TEM3*3 00178 370 2 5-0000000000000000000000000000000000	•			8 2	SC220	102C	LOX	4.6CAZ.M	104000000000000000000000000000000000000
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00144 324 2 70000050 STB TEM2 00144 328 2 54000032 LDB GCA3+2 00144 330 2 50000032 LDB GCA3+2 00145 334 2 50000024 LDA GCA1+2 00150 335 2 50000024 LDA GCA1+2 00150 336 2 50000024 LDA GCA1+2 00150 336 2 50000024 LDA GCA1+2 00156 344 2 50000024 LDA GCA1+2 00156 345 2 50000024 LDA GCA1+2 00156 346 2 50000024 LDA GCA1+2 00156 350 2 50000024 LDA GCA1+2 00167 350 2 50000014 STA TEM3+2 00167 350 2 50000016 STA TEM3+2 00167 350 2 500000024 LDA GCA1+2 00168 350 2 500000024 LDA GCA1+2 00177 370 2 500000024 LDA GCA1+2 00178 370 2 500000024 LDA GCA1+2 00178 370 2 500000024 LDA GCA1+2 00178 370 2 500000024 LDA GCO1+2 00178 370 2 500000024 LDA TEM1+2 00179 370 2 500000024 LDA TEM1+2 00178 370 2 500000024				2 2	30000	UBE	STA	TEM2+2	
00146 326 2 14000032 LUDA GGA3+2 00147 322 2 5000001C STA TEM4+2 00146 334 2 7000001C STA TEM4+2 00152 334 2 7000001C STA TEM4+2 00153 334 2 7000001C STA TEM4+2 00154 334 2 5000002A LUDA GGA1+2 00155 334 2 5000002A LUDA GGA1+2 00155 334 2 5000002A LUDA GGA1+2 00156 334 2 5000002A LUDA GGA1+2 00156 334 2 5000002A LUDA GGA1+2 00156 334 2 5000002A STA TEM3+2 00156 334 2 5000002A STA TEM3+2 00156 335 2 5000002A STA TEM3+2 00156 335 2 5000002A STA TEM3+2 00156 335 2 5000002A STA TEM3+2 00166 335 2 5000002A STA TEM3+2 00167 335 2 5000000A STA TEM3+2 00177 336 2 5000000A STA TEM3+2 00178 336 2 5000000A STA TEM3+2 00178 336 2 500000B STA TEM3+2 00178 337 2 500000B STA TEM3+2 00178 338 2 500000B STA GAD1+2 00178 337 2 500000B STA GAD1+2 00178 338 2 500000B STA GAD1+2 00178				4	10007	09C	STB	TEAZ	
0.0144 328 2 54000030 LDB 5GCA3 0.0145 33.0 2 DC00002C STA TEM4-2 0.0145 33.4 2 5CC00101 STB TEM4-2 0.0156 33.4 2 5CC2001C LDA 6CA1-2 0.0154 34.0 2 5400002C STB TEM4-4 0.0155 34.0 2 5400002C LDA 6CA1-2 0.0156 34.0 2 54000002 LDA 4-P5-N- 0.0156 34.0 2 54000002 LDA 4-P5-N- 0.0156 34.0 2 5400002C STB TEM3-2 0.0156 34.0 2 5400002C STB TEM3-2 0.0156 34.0 2 5CC20010 LDA 4-P5-N- 0.0156 35.0 2 7C00002C LDA 6CA1-3-C 0.0156 35.0 2 7C00002C LDA 6CA1-3-C 0.0166 35.0 2 5C000010 STB TEM3-2 0.0176 35.0 2 7C000010 STB TEM3-2 0.0176 35.0 2 5C00000C LDA 4-PC- 0.0176 35.0 2 5C00000C LDA 1-PC- 0.0176 35.0 2 5C0000C LDA 1-PC- 0.0176 5.0 5C0000C LDA 1-PC- 0.0176 5.0 5C0000C LDA 1-PC- 0.0176 5.0 5C0000C LDA 1-PC- 0.0177 5.0 5C0000C LDA 1-PC- 0.0177 5.0 5C0000C LDA 1-PC- 0.0177 5.				-		1032	LOA	6CA3+2	
00144 330 2 DC00002C SFD S2GC 0014C 334 2 2 5C00001E STA TE44-2 0014C 33-2 2 5C00001E STA TE44-2 0014C 33-2 2 5C00001E STA TE44-2 0015C 33-2 2 5C00002A LDA GCA1-2 0015C 33-2 2 5C2001C LDA GCA1-2 0015C 34-2 2 5C2001C LDA GCA1-2 0015C 35-2 2 5C2001C LDA GCA1-2 0015C 35-2 2 5C2001C LDA GCA1-2 0016C 35-2 2 5C20001C LDA GCA1-2 0016C 35-2 2 5C00001C STA TE-3-2 0016C 35-2 2 5C00001C LDA GCA1-2 0017C 37-2 5C00001C LDA GCA1-2 0017C 37-2 5C00000C LDA GCA1-2 0017C 37-2 5C00000C STA GCA1-2 0016C 37-2 5C00000C STA GCA1-2 0017C 37-2 5C00000C STA GCA1-2 0016C STA TE-1-2 0017C 37-2 5C00000C STA GCA1-2 0016C STA GCA1-2 0017C 37-2 5C00000C STA GCA1-2 0017C S						030	FDB	6CA3	
0014C 332 2 300001E STA TEM4*2 00164 334 2 700001C LDA GCA1*2 00152 334 2 700001C LDA GCA1*2 00154 334 2 500002A LDA GCA1*2 00155 340 2 5400002B LDA GCA1*2 00155 344 2 5622014 LDA GCA1*2 00155 344 2 5622014 LDA GCA1*2 00156 344 2 5622014 LDA GCA0*2 00156 345 2 6400000 JS TA TEM5*6 00156 350 2 700002C STB TEM5*6 00156 350 2 700002C LDA GCA0*2 00156 350 2 700002C LDA GCA0*2 00164 350 2 7000002C LDA GCA0*2 00165 350 2 7000002C LDA GCA0*2 00164 350 2 7000002C LDA GCA0*2 00175 350 2 7000002C LDA GCA0*2 00176 350 2 7000002C LDA GCA0*2 00177 370 2 7000009C LDA GCA0*2 00177 370 2 7000009C LDA GCA0*2 00178 370 2 7000009C LDA GCA0*2 00178 370 2 7000009C LDA GCA0*2 00179 370 2 7000009C LDA GCA0*2 00170 370 2 7000009C LDA GCA0*2 00171 370 2 7000009C LDA GCA0*2 00171 370 2 5000000C LDA GCA0*2 00172 370 2 7000009C LDA GCA0*2 00174 370 2 5000000C LDA GCA0*2 00175 370 2 7000000C LDA GCA0*2 00176 370 2 7000000C LDA GCA0*2 00177 370 2 7000000C LDA GCA0*2 00178 370 2 700000C LDA GCA0*2 00178 37		0.00		0 2	DCCOC	02C	SFD	S26C	(6CA3-526C)
00156 334 2 7000010 CDA 4.1544.4 00155 336 2 50220010 CDA 6641-2 00156 340 2 54000026 CDA 6641-2 00156 344 2 56220010 CDA 4.154.7 00156 350 2 70000024 CDA 4.154.7 00166 350 2 70000024 CDA 6640.2 00166 356 2 54000024 CDA 6640.2 00167 356 2 54000024 CDA 6640.2 00168 356 2 54000024 CDA 6640.2 00177 356 2 540000020 STA 1542.7 00178 356 2 540000020 STA 1542.7 00178 376 2 540000020 STA 6701.7 00178 376				2 2	30000	101E	STA	TE 44+2	SAVE 11
00150 335 2 5C22001C LDX 4.15/4.4 00156 336 2 5C22001C LDA GCA1-2 00156 344 2 5C220014 LDX 4.45'1.7 00156 356 2 54000024 LDX 4.45'1.7 00166 356 2 54000024 LDX 4.45'1.7 00167 356 2 54000024 LDX 4.45'1.7 00168 350 2 5C000018 STA TEM3-2 00168 350 2 5C000018 STA TEM3-2 00169 350 2 5C000018 STA TEM3-2 00177 350 2 5C000018 STA TEM3-2 00178 370 2 5C000004 STA TEM3-2 00178 370 2 5C000004 STA GXDI-2 00177 370 2 5C000006 STA GXDI-2 00178 380 2 5C000006 STA GXDI-2 00178 380 2 5C000006 STA GXDI-2 00188 392 2 7C000004 STA GXDI-2 00188 392 2 7C000004 STA GXDI-2 00188 394 2 5C000006 STA GYDI-2 00188 394 2 5C000006 STA GYDI-2 00188 394 2 5C000006 STA GYDI-2 00189 395 2 7C000006 STA GYDI-2 00189 395 2 7C0000006 STA GYDI-2 00189 395 2 7C00000000 STA GYDI-2 00189 395						010c	STB	TEM	
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	GCAS	TEMI	4.6C42.M	MULFU	TEM1+2	TEHL	6044.2	6CA4	TE 14	4.0CA1.M	MULFU	F. 604.4	MULFO	TE	TENA	TEM3+2	TEA3	Teint		TE 41	M.Z.+	MULFU	620T+2	
	AFD	SFU	LUX	Sr	STA	STB	LUA	LUB	AFU	LUX	Sr	LUX	SC	STA	578	LUA	607	SFU		96.0	LUA	35	STA	
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		IFM	IF2	5,TEN	RAD+2	MAD	KXY2	TEM0+2	TEMO	ALT+2	ALT	TEM0		16	046+1	TEM0+2	LEMO	4,C052,M	MULFO	TEM+2	TE4	4. TEM.M	c•x	X-2.5	MULFO	LDVX-2.5	LUVX.5	S.FUUR	IFIA	IFM
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		454	428	460	462	191	466	468	470	472	414	476	478	479	480	482	484	486	486	364	492	494	496	864	500	505	504	506	508	510
		00100	001CA	00100	OUICE	00100	00102	00104	90100	00108	0010A	00100	OUIDE	00106	00160	001E2	001E4	00166	OUIES	COLEA	OOIEC	DOILE	00110	001F2	00154	00166	00168	OOIFA	OOIFC	COIFE
-	267	268	569	570	571	572	573	574	575	576	577	578	579	580	581	585	583	584	585	586	587	588	589	240	200	265	293	765	565	965

DIAGNOSTICS LINE AUMES DAUMES LC PHUGHAM VERSION KROADSUS DECK NAME = \*NAV \*

	CUMPUTE EARTH MAUIUS AND DELTA MADIUS				Kx1=.00503	.00503*C26C	1.0+.00503*C26C		S26C*(1*.00503*C26C)	KH3= 21385.0	21385.*S26C*(1+.00503*C26C)					ALT-(21385*526C*(1+.00503*C26C)			HAD=DELK+RADE			
	EARTH RAUIUS A	1524	C26C+2	CZGC	4.KK1.M	MULFU	OF ONE	4.526C.M	MULFU	4.KR3.M	MULFU	TEM+2	TEM T	ALT+2	ALI	TEM	0£1.8+2	DELM	RADE	RAD+2	KAD	IF 2M
	CUMPUTE	2 2	LUA	LUB	LUX	SC	AFD	LUX	SC	LOX	Sr	STA	STB	LDA	LUB	SFU	STA	STB	AFU	STA	STB	4 LY
•		11.2																	IF3			
		00000012	14000032	54000030	SC22004A	00004049	9C00001C	SCZZOOZC	64040000	SCZZUO4E	00000000	3C0000AA	7C0000AB	14000012	54000010	UCOOOOAB	30000070	7C00007A	9000000	30000002	70000000	74000072
		2	,	2 0	2	~	2	2	2	2	2	~	*	2 0	2	2	2	~	5 5	7	2	2
		516	514	210	516	526	556	524	526	528	53	536	534	536	536	54(	545	54,	546	547	55	556
		00200	0000				U320A															
		298	544	000	Loc	204	603	400	605	506	607	500	600	010	511	616	013	614	515	919	517	219

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	SOURCE	THIS ROUTINE DOES DOUBLE INTEGRATION FUR VELOCITY AND DISTANCE AS FOLLOWS:	***	VX 4 4 VX 4 GKDT 4 4 DVX 4 VY 4+4 VY 4+DELT+4 GYDT 4+ DVY 4	* 7AO * * 7A * * * * * * * * * * * * * * * *	** ** ** **	* TDNX * * * * *		* L0VZ * VZ * *			(XK4)=AUDRESS OF UELI	INITIALIZE INDEX		GADT (1) & DELT T=1.3	מיניין הרבו		VX(I) = GXDI(I) + DVX(I)			DELT*(LDVX(I)+VX(I))		X(1)=X(1)+(DEC +CDAX(1)+AX(1))				
		TINE DOES DOUB		+DELT*		**	* * * *	+DELT#		*	IGM	4.DELT.M	5,10,M	6x01.5	647-1049	DVX-2.5	VX-2.5	VX.5	VX-2.5	LDVX-2.5	MULFD	X-2.5	X,5	x-2.5	S.4.M	1614	I GM
		THIS ROUTINE AS FOLLOWS:	* * *	* * \	* 7 * * * * *	** ** **	* * × *	* * *	. 2 2 .	***	PTR	LOX		A LOA	907	AFD	AFU	STA	STB	AFD	Sr	AFU	STA	818	ZWI	760	ATA
						 						161		IGIA													
. VAN	C PROGRAM										2 000000070	2 50220030	2 SC2A000A	2 16800000	2 SEBUFFFE	2 9F80003C	2 95800012	2 35800014	2 74800012	2 9E80002A	2 64040000	2 9E8000BE	2 3E8000C0	2 7E8000BE	2 60280004	2 64300230	2 74000070
AAME=	SES L										554	929	558	260	295	200	268	570	572	574	915	818	280	585	584	586	288
DECK NAME=*NAV	AURES DAD										0022A	0022C	DOZZE	00230	00232	00234	00238		0023C	0023E		00242	55700	94200	84200	0024A	0024C
VERSION K20A0503	DIAGNOSTICS LINE ALMES DADRES LC PROGRAM										620	621	622	623	624	579	627	628	629	630	631	632	633	634	635	636	637

	SOURCE	LATITUDE AND LONGITUDE COMPUTATION					0.00		SAVE IT			C**X	2001+200X		SAVE X**2+Y**2	SukT ( X ** 2 + Y ** 2)	•	SAVE 11		2	Z+KGDL			Y.	ATAN ( (2*KGDL) / SURT (X**2+Y**2))	10000000000000000000000000000000000000	113-1-3				SCALE TO 2**=30			U43 DATA = LSH OF LATITUDE			( TI № E - T 0 )	A 100 401 - 2011	CTIME-TO *OME 6) - 1 GO		
		AND LONGI		III	X+2	X	MILLED	TE 4+2	TEM	X	W . Y . 4	MULFO	TEM	TEM+2		DECSO	TEM0+2	I E MO	7.7	M. ICENT	MULFU	TEM1+2	TEMI	4. IEMD.M	DECATN	ATA	1 41 + 7	LAT			042+1	16		043+1	TIME+2	TIME	10	4.0MEG.M	1 90	TEM1+2	7.7
		LATITUDE		1 1 2 2 2	LUA	POT	15.	STA	STB	LUA	10x	35	AFU	STA	2 2	Sc	STA	218	400	100	SC	STA	STB	TDX	Sr	46.0	STA	STB		× 4.5	STREE	SELD		STBH	LUA	109	SFU	LUX	SFD	STA	STB
			•	ī	141																				,	•			4	741					IH3						
* ^4	PROGRAM			00000000	140000CZ	540000C0	000000000000000000000000000000000000000	3C0000AA	TCOOOODAB	14000006	50220004	000000000	90000008	3C00004A	COOODAG	00000009	30000086	1000000	4000001	200000	0707779	3C00008A	7000009	50520004	64040000	9C000024	3C00000A	7000000	00.00	00+0	70010079	0810	0700	10010078		24000028	DC00000C	200220028	00000000	3C00000A	14000000
2	LC					NA					U 1			v	7	~	N		un	0 1			~	2	~	1	1	~	0	v	un	12		V	~	V	v	vi	1	2	NN
DECK NAME = *NAV	ADRES			590	245	440	200	600	505	504	200	610	612	614	010	619	620	220	170	600	630	632	634	636	634	049	249	944	111	040	240	650		929	624	659	650	000	900	999	670
DEC	AURES (			0024E	00520	00254	00256	00250	0025A	00250	00290	29700	99200	00266	99700	6026A	00260	20000	01200	00274	00276	00278	00274	0027C	0027E	00280	00282	00284	20000	00200	00200	6028A		00290	0028E	06200	26200	40000	00298	06200	0029C
1503	INE			200	641	546	944	545	949	140	0 5	650	651	259	200	926	555	000	200					663	799	599			111	000				2/9				010		619	550
VERSION K20AUS03	DIAGNUSTICS LINE AURES DADRES LC PROGRAM																																GENERATED								

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DIAGNOSTICS LINE AUKES DADRES LC PHUGHAM 642 002A0 672 2 540000C4 683 002A2 674 2 5G2200C0

VERSION K2040503 DECK NAME=\*NAV \*

SOURCE	ATANIY/X)	LONB+ATAN (Y/X)		(1 DNH+4 TAN (Y/X)) - ( (TIME-TO) *OMEG) - LGO)				05-000 OT 2 1422	SCALE TO 2 = 30			U45 DATA = LSH OF LONGITUDE	(A+B)=LONB+AIAN(Y/X)				SCLG=SIN(LONB+ATAN(Y/X))	CCLG=COS (LONB+ATAN (Y/X))		(A.B)=((TIME-10)*OMEG)-LGO				SWT=SIN(((TIME-T0)*OMEG)-LGO)	CWT=CUS(((TIME-T0)*UMEG)-LGO)				2**2	(2**Z+Z**X+Z**X)	SURT (X**2+Y**2+Z**2)	HXY7=50RT(X**2+Y**2+Z**2)					Z/RXYZ	SGCL=Z/KXYZ	
×.×.4	DECATN	LONB	TEM2+2	TEMS	1 046+2	LONG			2	1.4440	10	045+1	TEM2+2	TEM2	SINCOS	***	SCL6	9700	CCL6+2	TEM1+2	TEMI	SINCOS	7 * *	SWT	CWT	CWT+2	2.5	W-7-4	MULFU	TEM	DECSO	044740	KX12.2	7+2	7	M.ZYXY.	DVFU	S6CL+2	1500
LDd	35	AFD	STA	200	STA	STB		CFX	SKAD	STAN	SELD	SТВН	LOA	LUB	Sr	JAC	ž Ž	STB	STA	LDA	607	SC	JRU	A T d	STB	STA	LUA	202	72	AFO	Sr	410	A D	S   S	109	LUX	35	STA	0.70
	•	•					*	114					1.15				,	91		IH7	,	•			148		6HI				•	•		011	חזנו				
PHUGRAM 540000C4 5C2200C0	00007079	9000050	3C00000E	7000095	3000000	70000000		0040	0000	7C01007D	0810	2 7C01007F	140000BE	2400009C	00007079	6004	00000000	75000024	3000026		24000038	64040000	6004	000000000	7C000004	30000006	140000CA	24000008	50220008		000000009			7C000004				3000036	
	N	~	2	2	v 0	v ~		~	2	2	2		~	5	2		2	0					2	~	2			2	v 0		~				u a				
00240 672 2 00240 672 2 00242 674 2	676	678	680	299	684	989		069	169	269	169	969	804	100	702	104	705			712			718							734	736			74.0			748		
AURES 002A0 002A2	002A4	0246	002AB	002AA	OUZAC	00240	200	26200	00283	00284	00286	99700	00240	002HC	002BE	00200	00202	47500	00200	00208	OUSCA	22600	OUZCE	00200	00202	00204	00200	00208	OUZDA	OOSDE	00250	1	00262	00254	000250	002F4	ODZEC	COPEF	0000
	684 0	284				200			269		969	969	404			669	700		707			202			708	109	710	711	712	714	715	:	716	717	110	720	721	122	33.
JAGNOSTICS LINE 682 683												SENERATED					GENERATED							GENERATED															

	SOUNCE		Socr**2	S26C=S6CL**2					SORT (X**2****) TXXZ	CGCL=SQRT (X**2+Y**2)/KXYZ			CoCL **2	CS6C=C6CL**2									SOUL=SIN(LAT)		CGDL=COS (LAT)		
		4.56CL.M	MULFU	S26C+2	520C	TEMU+2	TEMO	4.8XYZ.M	DVFU	C6CL+2	7090	4.CGCL.M	MULFO	C23C+2	CZGC	LAT+2	LAT			STACUS	***		7095		CeDL+2	CGUL	VII.
		LUX	75	STA	STH	LUA	108	LUX	75	STA	STB	LUX	JS	STA	STB	LDA	LDB			SC	חאר		PIH		STA	STB	RIA
		IH12				IHII						1413				IH14		٠	*					*		1415	
* ^A	PROGRAM	50220034	00000000	3C00002E	7C00002C	140000041	54000005	50220004	000000009	3C00003A	70000038	SC220038	64040000	30000032	70000030	140000001	54000008			2 64040000	2 6004	0010	R00000000 2		792 2 3C00000E	2 7C00000C IH15	74000070
7 4 11	7	N	N	2	2	~	~	2	N	~	N	2	~	2	~	2	~								2	2	~
DECK NAME = *NAV	AUMES DADRES LC	754	156	158	760	762	164	166	768	170	772	774	776	77.8	780	782	784			786	788		062				
90	AUKES	002F2	002F4	002F5		UUZFA	UUZFC	_			00304	10.77					- 77			00312	741 00314		742 00316		00318	744 0031A	00 310
VERSION K20A0503	DIAGNOSTICS LINE	724	725	126	121	128	621	730	731	132	733	734	735	736	737	738	739			740	741	GENERATED			743	144	145
VE	0.1																					GE					

VERSION AZOBUSU3 DECK NAME=\*NAV \*
DIAGNOSTICS LINE BUPES DADRES LC PROGRAM

DECK NAME = \*NAV \*

COMPUTATION OF LUCAL VERTICAL CO-ORDINATES

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			٥		•																																				VECTOR					
-OKOI WATES			XISTAM OF SPECIAL SOX		ZERO INTO A(2.3)				SGUL INIU ALLISA			1000	- 7005	910		= -S60L*CCL6				9700 =			= C60L		2.6	9 1000 1000 -	A(1,1) = C6UL*CCL6			9 10		= C60L*SCL6			SCL6 = -SCL6	= -5CL6			SCLG	0 1000	A(3,2) = -560L*5CL6	LIZE PUINIER IN				
SPEED			00V-50X		INSERT				INSERI			2000	- OH 37	5 100 # 1005-	-3005	4(3.1)				A (2.2)			A (3,3)		CGDL*CCLG		A(1.1)			5 1354 1053	COOL 3	4(1.2)			ZERO -	A(2.1)			-26()L*2CL6		A (3,2)	T I I			VOMORY	
OUND																																														
N OF LUCAL			134	25.00	30.5	28.5	S60L+2	SGOL	56.5	24.5	ZERU	ZERU	SGDL	4.000	10.5	201	4.0	1.0	18.5	16.5	C60L+2	C60L	34+5	32.5	MULFU	2,5	2.0	4.5CL6.M	34.5	32,5	MULTU	20.01	ZERU	ZEHO	SCLG	6.5	4.5	4.5GDL,M	MULFO	55.52	20.5	5. AP. M	× × ×	A - OMISS - M	1000	200
COMPUTATION OF LOCAL VEHICAL CO-ORDINALES VV.VE, AND VN. AND GROUND SPEED		EVEN	2 2	33.	STA	STA	LUA	108	STA	STB	LDA	LUB	SFO	LUX	25	1 1	46.1	1.08	STA	STB	LUA	LUB	STA	818	Sr	STA	STB	LUX	LDA	108	25	2 7 7	LDA	108	SFU	STA	STB	LOX	Sr	STA	STB	LUX	LDA	LUB	, CO.	00
	*		2	171																																										
			02000000	SCAUGO	348F	3ABE	1+000000+1	24000000	3480	748C	1400001C	5400001C	00000000	50520024	000000000000000000000000000000000000000	3465	1001	5200	3449	7488	1400000E	S400000C	3491	7A90	000000000	3481	7480	5C220028	1291	2530	64040000	3451	14000010	54000010	DC000028	3483	7482	50223008	64040000	3468	7ABA	SC240150	14000000	540000C4	500000	24040000
			2	v 1	va	, ~	~	2	V	N			2	~	V	v	u 0	0 0	00	10	N	2	2	2	2	N	~	~	V	N	V	v	un	10	2	2	2	2	N	N	2	2	N	2	V	V
			198	900	208	805	908	808	810	811	812	814	816	818	850	228	626	426	020	827	828	830	832	833	834	836	837	838	940	841	248	344	240	844	850	852	853	854	856	858	859	860	862	864	865	868
			0031E	00350	00326	00325	00326	00328	00324	00328	0032C	0032E	00330	00332	00334	00336	00337	00000	65500	00338	00330	0033E	00340	00341	00342	00344	00345	00346	00348	60346	0034A	00340	00345	00320	00352	00354	00355	00356	00358	0035A	00358	0035C	0035E	00360	00362	00364
			-		751				-			=,	-					100		747					772				116				200				185	786	187	788	189	190	161	192	193	194

PA				
	SOURCE  VX+Y*OMGA  INSERT VX+Y*UMGA INTO AP(1)  X*OMGA  STOHE X*OMGA IN TEMP LOCATION  LOAD VY INTO (A*B)  VY-X*OMGA  INSERT VY-X*UMGA INTO AP(2)  INSERT VZ INTO AP(3)		IM(1,3)=TM(2,3)=TM(3,1)=TM(3,2)=0 INSERT 1.0 INIO TM(3,3)	INSERT CWT INTO TM(1+1) AND TM(2+2)  INSERT SWT INTO TM(1+2)  ZERO - SWT = -SWT  INSERT -SWT INTO TM(2+1)
	00 00 00 00 00 00 00 00 00 00 00 00 00	#ULU31 **8 AP VV VV S*TM*M	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	STA STA STA LOB STA STA STA STA STA STA STA	SUL TITY SUL	8 8 17 A A C C C C C C C C C C C C C C C C C	LDB STA STA STB STB CDA CDA CDA STB STB STA STA
	•	* * 2		
* >4	PROGRAM 9C000114 3AS1 1A0000C2 540000C0 3C0000AA 7C0000AA 7C0000AA 3AB3 1400001A 1400001A 3AB3 1400001C 3AB4	64040000 6008 000000000 000000150 000000150 5C2A012C	3486 3486 3486 3484 3484 3485 5400001E 7491 14000006	54000004 3A81 7A80 14000002 54000000 3A87 7A86 -1400001C 5500001C 5400001C
2	nannananananan	~~ ~~~ ~~		nnnnnnnnnnnnn
DECK NAME=*NAV	DAUME S 877 8 877 8 877 8 887 8 888 8 888 8 888 8 888 8 888 8 899 8	80 90 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9113 9114 9115 9116 9116 9116 922 923	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
UE	00366 00364 00364 00364 00376 00376 00377 00378 00378 00378	00384 00384 00388 00388 00388	00390 00394 00394 00397 00397 00397 00397 00397 00397 00397	00349E 00341 00342 00343 00346 00346 00346 00346 00346 00346
10503	7446 N H H H H H H H H H H H H H H H H H H	913		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
VERSION KZOA0503	DIAGNOSTICS	GENERATED		

DIAGNOSTICS LINE ADRES DADRES LC PROGRAM

VERSION K20A0503

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					L.
					SCALE TO 2**-19 048,044,0K 04C=LSH OF VELOCITY
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													SCALE TO 2**-19	048.044.0K 04C=LSH OF VELOCITY			047.049.0R 048=MSH OF VELOCITY								SET VEL2 TO ZERO			LOAD V(I) INTO (A.B)		VV*VV OR VE*VE OR VN*VN		STORE V(I) *V(I) IN A TEMP LOCATION	VEL2=VV*VV+VE*VE+VN*VN		STURE VELZ SUM	DECREMENT POINTER FOR NEXT ELEMENT				VEL2-V*VV			GS=SURT (VEL2-VV*VV)		V1 (I• U) = A (I• U) A U (I• U)	
	MULD31	D++		¥ .	AP	VXE		5.0.M	4.1.M	VV+2+5	٧٧٠5		3	048.4	16		047.4	5.4.W	W. +. +	5.12.M	174	I J3A	ZERO	VELZ	VEL2+2	5, TEN	4.VV-2.5.M	VV-2.5	۷۷,5	MULFU	TEM.5	TEM-2.5	VELZ	VEL.2+2	VELZ	5.FOUR	IJAA	VEL2+2	VELZ	IEM		DECS	65+2	65	MUL33	8.
	Sr	חאר	1	2	Y La	211		LUX	LOX	LUA	108	CFX	0118	STRH	0 125		STHH	¥ .	J. T.	1CL	790	760	LUA	STA	STA	LDX	LOX	LOB	LOA	35	STA	STB	AFD	STA	STB	ZEI	760	LDA	607	SFU		Sr	STA	STB	35	חאר
•							*	133		1 134													174				1 J4A											175							176	
		2 6008				2 0000005A		2 SC2A0000		2 1660004E			2 0803	2 75010082	2 0470		2 7F010080		2 66220004	2 2428000C	2 64300306	2 64300300	2 1400001C	2 3C00006A	2 3000006	2 SC28001A	2 SEA2004A	2 5680004A	2 1680004C	2 64040000	2 3E8000A8	2 7E8000A6	2 9C00006A	2 3C00006C	2 7C00006A	2 66290010	2 6430030E	2 1400006C	2 5400006A	2 DC0000A8		2 64040000	2 30000068	2 70000066	2 64040000 136	2 6008
	946	846			955	954		956	959	096	396	496	965	996	964		026	972	416	916	978	980	982	984	986	886	066	266	166	966	866	1000	1002	1004	1006	1008	1010	1012	1014	1016		1018	1020	1022	1024	1026
		00384				003BA			003BE	00300	00362				-		00364						00306		_										_		-	-		00318		003FA		. 003FE		00405
	345	940		148	848	678		850	951	852	853	454	455	456	857		858	959	860	861	862	863	998	965	998	867	968	698	870	871	872	873	974	875	916	811	878	6/8	980	199		885	883	188	885	999
		-	GENERATED													GENERATED	2																													

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PAGE

SOURCE

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DIAGNUSTICS LINE AUMES DADRES LC PRUGGRAM
GENERATED 887 UG404 1028 2 0000000C
888 00406 1030 2 0000000F4
689 00406 1032 2 000000F4
690 00406 1034 2 74000070

DECK NAME=\*NAV \*

VERSION K20AUS03

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VERSION K2040503	10503		DECK NAME = *NAV	VANO	٠					PAGE 2	54
DIAGNOSTICS LINE ADRES DADRES LC	LINE	ADMES !	DAUPES		PHUGHAM				SOURCE		
							GYH	O DRIFT COMPEN	GTHO DRIFT COMPENSATION COMPUTATION		
							THIS ROUT AND NAV.	THIS ROUTINE IS EXECUTE AND NAV. THE EXECUTION INITIALIZED TO -8.	THIS ROUTINE IS EXECUTED ONCE EVERY SECOND DURING BOTH ALIGN AND NAV. THE EXECUTION CYCLE IS SET HY A CONSTANT, DCON, WHICH IS INITIALIZED TO -4.		
0 D F R C D C D C D C D C D C D C D C D C D C	445 443 445	0040C 0040E 00410	1036 1038 1040	2 6000	640400000 1L1	111	EVEN JS JRU	ILM VECADU	SDV(I)=SDV(I)+DVX(I)		
OCHERA IO	222	00414	1042	2 000 2	000000000		2 2 2 Z	SOVI SOVI SOVI			
	668		1048	2 140 2 A40	1400000A A40000010		LDA ADU	ONE			
	405 408 409	0041C 0041E 00420	1054	2 92	3C0000010 67200630 140000002	11.3	STA JL LDA	DCON 1L15 DCSK	DCON = DCON • 1 DCON = DCON • 0 DCON = -8		
	905	00422	105e 1060	2 30	3C000010 1+000002 1LS	11.5	LDA	DCON SRT1+2	DIVIDEND IN (A.B)		
	404		1064	2 500	SC22001C		ros S	4.010C.M	(XM4)=ADDMESS OF DIVISOR SRT1=SRT1/DIDC		
	916	0042E	1056	2 30	30000002		STA	SH11+2 SH11			
	200		1074	200	240000004		S S S S	SRTZ	SH12=SR12/01UC		
	415	00435	1080	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	70000004	-	STB	SH12+2 SH72			
	217		1084	2 30 5	64040000 3C0000AA		US STA	DVFU TEM+2	SHTZ/DC04 SAVE SRTZ/DC04		
	919	000000000000000000000000000000000000000	1090	2 70 5	7C0000A8		STB	SKT1+2			
	123		1075	2 64	000000000000000000000000000000000000000		US STA	DVFU	SHTI/DC04		
	924		11098	2 50,	7C000004		STB	TEM3			
	424		1104	2 30	30000000		STA	MULFU TEMU+2	(SKT1/DC04)**Z SAVE (SRT1/DC04)**2		
	929		1106	217	14000004 54000048		LUB 1	16M+2			
	932		1115	2 50	5C2200A8		rox 78	4.TEM.M MULFU	(SAT2/DC04)**2		
	933		118	2 30	3C00000AA		STA	TEM+2	SAVE (SRT2/UC04) **2		
	435	00462	1120	2 54	1400001E 5400001C		L04 L04	FONE	LUAD A WITH 1.0. COMPUTE F1		

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PAGE																																						
	SOURCE F1=1.0-(SRT1/DC04)**2	COMPUTE F2	F2=1.0-(SRT2/UC04) **2		ACCELEHOMETER TO GYRO CO-ORDINATE ROTATION	0V(1)=K45M(I,J)*SUV(I)					DEPENDENT	AMS= BASE FOR MATHIX AP			AP(I)=CDI6			AP (2) =C018			AP (3) =C017	ACTO DO CORREGO ANTONIO	INITIALIZE POINTER TO VECTOR AP(T)			UIUC*AP(I)		DECREMENT PUINTER FOR NEXT ARGUEMENT				CU29*HATM	SAVE CD29*RAIM				CONSTRUCTORSEN	
	TEM0 F1+2	FONE	TER	F2+2 F2	ETER TO GYRO	MULD31	\$	R45M	INOS	140	G INDEPENDENT, SPEED INDEPENDENT	5.AP.M	CD16+2	600		CD18+2	C018	6.5	6,7100	5017	10,5	8.5	F. 0.00.3	AP.5	AP-2.5	MULFU	AP-2.5	5.FOUR	IL8A	C029+2	6700	MULFD	15.4.2 TE:4	W. HATP. M	CD28+2	600	MULFU	464
	STO	LUA	SFD	STA	ACCELEHON	SC	חאר	AT 4	AT C	1	G INDEPEND	LOX	LDA	108	AIS	LDA	109	STA	0 -	LOB	STA	STB	XO.			SC	818	N. I	760	10A	LUB	Sr	AIS	Sic.	LOA	108	35	AFD
						117						168												IL8A														
* ^ ^ 4	PROGRAM DC000054 3C000046	1400001E	UC00000AB	3C00004A		64040000 167	9009	00000000	20000000	8500000		SCZAUISO		54000078	3461	14000082	24000080	3483	70000	140000 FE	3485	7484	50220010	16900150	5680014E	64040000	7E80014E	66290010	64300496	140000AE	540000AC	00000000	3C0000AA	50220000	140000AA	540000AB	000000000000000000000000000000000000000	¥C000154
1 = 9 h	7			NN		~		~				2			2	v ~	2	V	2	• •	2	2	00	u ~	2 0	20	10	2	00	50	2	2 .	0.0	,,	5	2	00	2
DECK NAME=*NAV	ADRES DADRES 00464 1124 00466 1126			1136		1140	1142	1144		1148		1150	1152	1154	1156	1158	1160	1162	1163	1166	1168	1169	1170	1174	1176	1178	1182	1184	1186	1190	1192	1194	1196	1200	1202	1204	1206	1210
30		00400 00400	0046E	00470		00474		00476		27400		0047E		00482	10100	00480	-	6048A	00499	00480				00436		0049A	-			00440		_	00440				000	
0.203	437 434	240	245	44		345	346	744	946	747		950	951	956	953	955	956	957	120	400	961	296	963	965	100	196	369	970	971	973	274	975	976	177	27.5	900	981	983
VERSION K2040503	DIAGNOSTICS							GENERATED																														

DECK NAME = \*NAV

VERSION K20A0503

SOURCE AP(2)=AP(2)+(CD28**ATP-CD29*RATM)	PENDENT	AT(1)=GM(I+J)*DV(1)		AP(I)=AP(I)+AI(I)		PENDENT	XHS= BASE FOR VECTOR AT			CD30*F1	INSERT CD30*F1 INTO AT(1)		CD319F1		INSERT COSTAFT INTO AT (3)			כסלקייאדי	SAVE CO43*RATM	AUDRESS OF KAIP IN XK4		CU42*RATP	(CD42*RATP-CD43*RATM)	SAVE (CO42*RAIP-CO43*RAIM)			SHT2/0004		SAVE (SRT2/DC04)	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DEPENDENT. SPEED INDEPENDENT	MUL031	6M DVI	VECADD	4 4 4 1 7 7	G INDEPENDENT, SPEED DEPENDENT	5.AT.M	4.F 1.M	CD30	MULFD	0.5	C031+2	CO31	10.5	8.5	CD43+2	5000	TEM+2	TEM	CD42+2	CD42	MULFD	TEM	TEM	4.0C04.M	SR12+2	OVFD	TEM0+2	TEMO	ZERO
A T S	G DEPENDEN	SU USU	4 4 4 4	JS	7 7 7	6 INDEPEND		LOX	607	35	578	LUA	108 15	STA	STB	LOA	108	STA	STB	LOX	LOB	Sr	SFD	276	רחא	LOA	L UB	STA	STB	LOB
				•			1110																							
PRUGRAM 3C000156 7C000154			000000000000000000000000000000000000000	64040000	0700 0000015C 00000150		SC2A015C	50220044	24000000	64040000	7480	14000086	24000084	3485	7A84	140000E6	540000E4	3C0000AA	7C0000A8	SC22000C	540000E0	00007079	DCCCCOORB	7C0000AB	50223052	14000006	000000000000000000000000000000000000000	30000086	7C000094	1400001E 54000001C
200		~~	~~~	NN	NNN		N	20	10	2	v	2	n	ı N	20	v	~	v	~	N	2	2	vo	u ~	2	2	vv	2	~	~ ~
UADMES 1212 1214		1216	1220	1226	1230		1236	1238	1242	1244	1247	1248	1250	1254	1255	1258	1260	1264	1266	1270		-	1276	1280	1282	1284	1288	1290	1292	1294
AURES 0046C 0048E		00400	0.04C4 0.04C6 0.04C8	00400				00406		00400	00406		004E2		004E7			00450		00454			004FC				00200			0050E
1NE 984		986	989	145	993		356	200	566	000	1000	1003	1000	9001	1001	6001	0101	015	1013	1014	1016	1017	1018	050	1021	2201	024	1025	9201	1028
DIAGNOSTICS LINE			GENERALED		GENERATED																									

DECK NAME = \*NAV

VERSION KZ0A0503

DIAGNOSTICS	LINE	AUMES	DAURES	U	PHOGHAM				SOUNCE
			1298	2	UC000084		SFO	TEMO	(1.0-5R12/DCu4)
	1030	00514	1300	V	30000000		STA	TE 40+2	
	1031	91500	1302	N	7000007		STB	TEMO	SAVE IT
	1032	6051A	1304	N	56220054		LUX	4. IEMO.M	
	1033	0051A	1306	N	1400000A		LDA	TEM+2	
	1034	0051C	1308	v	540000AB		207	TEM	
	1035	0051E	1310	v	64040900		25	MULFU	(1.0-5872/0C04) (C042*RATP-C043*RATM)
	1036	002500	1312	V	SCOODONA		STA	TEM+2	
	1037	00522	1314	N	7C0000A8		STB	TEA	SAVE IT
	1038	60554	1310	N	SC220048		LUX	4.F 2.M	
	1039	60556	1318	N	140000041		LUA	C032+2	
	10+0	00250	1320	V	54000008		109	C032	
	1001	00524	1322	V	04040000		35	MULFU	FZ*CU3Z
	1042	25503	1364	v	SCOODOAS		AFU	TEM	
	1043	0052E	1326	N	3483		STA	6.5	STORE F2*CU32+(1-SHT2/DC04)
				-		•	•		* (CJ42*RATP-CU43*RATM) IN AT (2)
	1044	12500	1361	v	7487		218	4.5	
	1045	06500	13.04	1	000000000		,	VECADO	15 TA 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1046	00532	1330	1	6000		יאר		
GENERATED	2	3000	2	4	0700				
2	1047	60534	1332	1	000000		27.2	AT	
	104		1334	10	05100000		1 1	. 1	
	040	002 44	2 3 34	10	00000000		2	1 4	
						4 G AV	) SPEE	AND SPEED DEPENDENT	
						O COMP	JE ELE	MENTS FOR HUM	COMPUTE ELEMENTS FOR HOWS I & 3 AND INSERT IN A (1. J)
	1050	0.0536	1334	1	SCABOOR	11.11	***	5.0.4	TANK TOTAL TOTAL
	1001		1340	un	14000014	1771	200	TEN	COLLEGE TO THE MALE AND THE PERSON
	1052	605 3F	1342	10	30000054		414	Z	INITIALIZE INDICATOR
	1023	00200	1344	10	200000			4.61.	
	1056	64500	1366	11	20180010		100	3.7540	COLINTER FOR COXX
	1055	00544	340	11	558000HC	11.114	100	50313.3	LOAD (40H) #11H CDXX
	1056	99500	1350	2	159000BE		F DA	C033+2+3	
	1057	00548	1352	N	000000000		35	MULFU	F1*COxx
	1058	00544	1354	N	3481		STA	2.5	
	1059	00540	1355	~	7480		STB	0.5	STUME IN A (I.J.)
	1060	0054C	1356	V	6CZAGOOC		4	5.12.M	INCREMENT MAINIX PUINTER
	1061	0054E	1358	V	66160010		1	3.FUUH	
	1062	03550	1360	N	24196058		ICL	3.1%	CHECK FOR PHUPER NUMBER OF ELEMENTS
	1063	25500	1362	V	64300550		160	11113	
	1064	00254	1364	v	04300244		700	ILIIA	
	1065	00554	1366	N	SC23001C	11.119	ZW	5.24.M	DECREMENT ARS FOR ELEMENTS OF ROW 3
	1066	00558	1368	N	14000029		407	IND	
	1901	00554	1370	V	A402000C		ADO	12.M	INCHEMENT INDICATOR FOR ROW 3
	1068	00550	1372	N	30000028		STA	ONI	
	6901	0055E	1374	N	£4050055		280	34.M	CHECK FOR END OF MATRIX
	1070	00220	1376	N	96190		2	11.114	
GENERATEU				-	0010				
	1001		1378	V	14000014		104	TEN	RESTORE INDICATOR TO PROPER VALUE
	2/01	10000	1380		30000028		514	INC.	
	1073	99500	1382	N	8590		LXA	3	ARB=INDEX FOR ROW 2 OF A(I,J)

DECK NAME=\*NAV \*

VERSION K20A0503

	SOUNCE	HESTORE XRS TO ADDRESS OF A				7FRO - F2 = -F2						-F2*CUXX		INSERT -F2*CD39 IN A(I+J)		DECKEMENT INDEX		AT(I)=A(I,J)*UV(I)							AP(I)=AP(I)+AI(I)						O TANT IN CO.	CO-ORDINALES			A(1,3)=A(2,3)=A(3,1)=A(3,2)=0										0C42/SHT1	111376700-11	411.1) = 4(2.1) = DC42/3H11				
		S-0-4	2.22	26.00	75.00	62	15 4.2	TEM	4. TEM.M	C039.3	CD39-2.3	MULFU	2.5	0.5	5.12.4	3,4,14	11110	MUL031	8++		4	DVI	4		VECAUD			AT	AP	AP	***************************************	10 FLAIFURM CU-URUINAIES	5.4.M	25.83	54.5	5.92	28.5	30.5	200	20.00	22.5	4.5HT1.M	DC42+2	2400	DVFD	5.5	0.5	5.5	0,00	00431	2+20
		101	2 2 2	VO.		095	0.10	2 1	XO		104	15	STA	STB	IMN	NWI	760	Sr	DHU		x -	x	x 12		Sr	חאר		x 1 a	2 2	PIK		THANSFER	LUX		STA	STA	STA	STA	410	1 4	STA	LUX	LDA	407	SC	STA	STB	STA	STG	101	100
										11116								•						• •							•		11.12																		
	PROGRAM	200000	SCAUGO	21004270	0100001	21000000	2000000	300000	7000000			90000000	301	7480	SCZ8000C	6C160004	64300578	6404000					00000150		6404000					00000150			SCZADOOC			3480	3ABE	3481	3434	3455	3448	50220000			64040000	3481	7AGU	3483	7482	14000050	24000024
,	CC	¢	u n	u r			v		4 ^								2		12		2		~		^			2		2			٧		2 5	2	2	~	V .	20	110	10	2		2 2	2 +	5 2	9	7 2		2 0
	ADRES DADRES LC		1001	1385	1550	1390	1396	1001	1361	1.00	-	• -	1406	1407	1404	1410	1412		1416		1410	1420	1450		1424	14/4	77.	1428	1430	1435			1434	143	1435	1439	1440	1441	٠.	1443	-		-	1450	-	-	~	-	-		1460
			99500	00200	00250	UUSOE	01500	21500	47500	01000	01000	17500	2000	2000	0000	26500	00584		00548		0058A	005BC	DUSHE		00500			00094	00536	00293			00594	-		16500		-			14500										00004
	LINE		101	1075	0101	201	10/0	101	0901	1001	2001	1000	1001	000	1047	TO TO	1089	10.30	1031		1092	1093	1094		10.01	1006	1010	1097	1398	1099			1100	1101	1102	1103	1104	1105	1106	1107	000	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119
VENSION NEOF	S	GENEMATED																		GENERATED							GENERATED																								

3	
d	
1	

																										0=0													INGLE							
SOURCE	DC43/5KT1		A (3,3) = UC43/5KT1				004275812	3	21 31 -06/34/012	A (1.2) =0042/38/2			0-(DC42/SRT2)=-(DC42/SRT2)		INSERT IT IN A (2.2)		AT (I) = A (I . J) * AP (I)						ОСАК			DCAH(1.1) =DCAH(2.2) =DCAH(3.3) =0						STONE NEGATIVE VALUES OF ANGLES IN AP(I)				ZERO - PHI = -PHI		STURE ANGLE IN AP(I)	DECREMENT POINTER FOR NEXT ANGLE		XHS= POINTER TO MATRIX DCAR	XH4= POINTER TO VECTOR AT		to choose at the poster	INSERT PHILAD IN DEAR 13.21	
	DVFU	34.5	32,5	4.5KT2.M	0042+2	0045	DVFU	1 1 1	0 1	6.71	ZEHO.	VE 40	12.5	18.5	16.5		MULD31	0.	•	2 4	AT		CONSTRUCT UPDATE MATRIX DCAR	S.DCAR,M	ZERU	0.0	2,7	10.0	33.5	34.5		TIVE VALUES 0	S. LEN	2E+0	ZEHO	AT-2.5	AP	AP-2.5	S.FOUR	11133	S.DCAH.M	4.41.M	1.0	***	50.0	66.22
	SC	STA	STB	LDX	LUA	LDB	5	2	1 1 1	219	LUA	108	SFD	STA	STB		35	240	07.0	1 2	2		STRUCT	LUX	LUA	STA	A L	AT S	4 - 0	ATA	,	HE NEGA	TOX	LDA	108	SFD	STA	STB	NWI	160	LUX	רטא	109	A CO	210	1
																						•	* CON	 1113							•	\$ 570		11138												
PHOGHAM	000000000	3491	7490	50220004	14000058	54000056	6404000	2000	7000	LAGO	14000010	24000010	0366	3489	7488	0010	0000000000	6008	00/0	200000	000000				1400001C	3480	SACO	3480	3400	3441			SC28001A	14000010	5400001C	DE80015A	35600150	7E80014E	6C290010	643005E2	SCZAUUOC	SC22015C	0025	1021	TAGE .	CHOR
37			2	V	N						V		~		2			v		un							vo			un	,		~				2	~	2	2	~	2	v	0 0	vo	7
ADRES DADRES	1462	1464	1465	1466	1468	1470	1472	11.74	1111	14/3	14/0	14/8	1480	1481	1485		1484	1446	1440	1400	1492			1494	1496	1439	1477	1501	1503	1503			1504	1506	1508	1510	1512	1514	1516	1518	1520	1562	1564	1500	1550	1361
ADMES													005CB	60500	005CA			OUSCE	00500							0050A	20000	00500		0050F			0.05E0												00000	1 2500
LINE	1120	1121	1122	1123	1124	1125	1126	11.77	1100	1160	1153	1130	1131	1132	1133		1134	1135	45.11	1137	1138			1139	1140	1141	2411	1144	1145	1146			1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	115/	1150	1150	
DIAGNOSTICS																GENERATED			GENERALED																											

INSERT PHIY IN DCAM(1+3)				INSERT PHIZ IN UCAR(1.2)					INSERT -PHICK) IN DCAR(2+3)				INSERT -PHIY IN DCAR (3.1)				INSERT -PHIZ IN DCAR(Z+1)		0000 01 2000 0000 0000	SRTI.SRTZ.KATP.RAIM.SUVI.SUVJ.SUVA.SUVR 10 ZERU																		
24.5	26.5	8.4	10.4	12.5	14.5	4. AP. M	7.0	5.4	28.5	30.5	7.7	4.9	8.5	10.5	4.4	10.4	4.5	6.5		SRT1 . SRTZ . KAI		0H37	SHII	SHT1+2	SKTZ	SR12+2	MATP	RATP+2	RATM	RATM+2	SDVI	S0VI+2	SUVI+4	SDVI+6	SDVI+8	SDVI+10	CWT	- 41
STB	STA	108	LDA	STB	STA	rox	FOB	LDA	STB	STA	F03	LOA	STB	STA	LUB	LDA	STB	STA		INITIALIZE			STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	LDA	LTA.
PHOUHAM 7ASC	3480	5204	1205	7486	3487	50220150	2500	1201	7ABE	SABF	5202	1203	7484	3485	5204	1205	7A82	3483	*	•	*	1400001C IL14	3000000	3000002	30000004	30000006	3C00000C	3C00000E	30000008	3C00000A	3000000	3C0000CE	3000000	3000002	30000004	3000000	1400000C	5100000
2 ~	~	N	~	~	2	~	2	2	2	2	2	2	N	2	2	2	2	2				2	2	2	2	2	2	2	2	~	~	2	~	12	10	10	2	
DOSEA 1530	1531	1532	1533	1534	1535	1536	1538	1539	1540	1541	1545	1543	1544	1545	1546	1547	1548	1549				1550	1552	1554	1556	1558	1560	1562	1564	1566	1568	1570	1572	1574	1576	1578	1580	
		-		-		00900	20900		-						00000	-		-				0060E	_	-		-	00618											
LINE	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181				1182	1163	1184	1185	1186	1187	1188	1189	1190	161	1192	1193	100	1195	1196	1197	
DIAGNOSTICS																																						

VEHSTON KZUAUSUS	\$0503	5	DECK NAME = "NAV	9	, , ,				
DIAGNOSTICS LINE AUMES DADRES LC	LINE	AURES	DADRES	27	PHUGHAM				SOURCE
							UPDATE AS	UPDATE AJ AND SA MATHICES	S
						•			
	1201						EVEN		
	1505		-	v			x 12	W.W.	
	1203		_	~		Į.	LOX	5.0443	LEST CHAD FOR VALUE . NE. ZERO
	1204		-	v	C4240000		25	2.0.5	CHAPTE CHAPTER
	1005	000000	1545	un	14000010		401	71.40	
	1207			1 ~	30000012		STA	CHAU	INITIALIZE CHAJ TO ZERO
						•			
	1208				64040000 IM2	IMS	SC	MUL33	D(I.J)=AJ(I.J) +OCAR(I.J)
000000000000000000000000000000000000000	1503	00000	1600	V	6008		ראַר	0	
GENERALED	1210	60062	1602	1	0000		2	P	
	1211			1 7			ria	DCAM	
	1212		-	V			r d	0	
						• •			
	1213	F.9000	1508	.1	000000000		SC	MATOAO	AU(I.41)=AU(I.41)+D(I.41)
	1214	000644			6008		JRU	***	
GENERATED									
	1215						7	A)	
	1216			~			1	0	
	1417	00020	1616	~	24000000	٥	<u>x</u>	CA	
	1212	00462	1414		SC280030	IMS	XCII	5.FL GN	
	1214			u ~			102	S.0.M	TEST FLGN FOR VALUE = 0
	1220		_	2			760	IMS	JUMP OUT IF FLGN = 0
	1221					1 M4	SC	MUL33	D(I+J)=SA(I+J)*DCAK(I+J)
	1555	00654			6008		JHC	***	
GENERATED					00/0		210		
	1224	0065					1	DCAR	
	1225	.00000	1632	2			Y Y	0	
						• •			
	1334	0.4400	16.16	0	00000000		5	MATOAD	SA (1.1) = SA (1.0) +D (1.0)
	1227	00664					חאר	10+	
GENERATED							•		
	1228		_				1	SA	
	1229			2			1 2	0	
	1630	00000	7591		8010000		-	24	
	1231	00660	7	2	74000070		ATA	IMM	
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	3740	PAGE

		COND DUKING NAV. IF ALIGN MODE THIS IT WILL ALSO STORE ST ROTATED FOR					IN AIR ALIGN	MODE=4IN AIR ALIGN, NOT IMPLEMENTED																				
SOUNCE	HETURN TO ALIGN DECISION (RTAL)	THIS MOUTINE IS EXECUTED OWCE EVERY 17B SECOND DURING NAV. IF THE SYSTEM MODE SWITCH IS EVER RESET TO AN ALIGN MODE THIS MOUTINE WILL DISABLE NAV AND ENABLE ALIGN. IT WILL ALSO STORE T(0) AS THE TIME THAT THE AJ MATRIX WAS LAST ROTATED FOR EARTH ROTATION.					THIS CODE IS FOR IN AIR ALIGN	MODE=4IN AIR A			MUDE > 4	SAVT=T0+3/32				() . 1	SA (1.0) = AU(1.0)					FLGN=FLGN+1		NOCIETA	WOOF < 4	NAVE MODE		TURN OFF INS ALIGN LIGHT (NUT IMPLEMENTED)
RTAL	JAN TO ALIGN L	INE IS EXECUTE A MODE SWITCH ILL DISABLE NA HE TIME THAT 1 ATION.	ΣNI **	SSING	***	MODE	FOUR	NWI	In3	10+2	3.01	03032	SAVT+2	SAVT	S.34.M	AJ.5	54,5	2000	FENT	FLGN	ONE	FLGN	OWIN	NSCH	INI	3000	*	INS ALIGN LIG
EVEN	HE T	THIS ROUTINE IS THE SYSTEM MODE ROUTINE WILL DI T(0) AS THE TIM EARTH ROTATION.	RIAL PIK INM	DPU PRUCESSING	*************	1 LDA	Setu	A T	INIA JAL	A0.1		AFD.	STA	STB		INZA LUA	STA	NE S	2000	40.1	ADO	STA	LUA	STA		INS	4-5	TURN OFF
чоскам			2 00000076 RTAL	* *	0 0	1400006C INI	2 E4000010	• •	6324	0700		24000050	30000034	7000032		168000F2 IN	3E800108	6C2B0002	54300682	0404000	4000000A	3000030	14000000	30000036			30000004	•
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VERSION K20AU303 DIAGNOSTICS LINE 1239			1240			1241	1245		1243	GENERATED	1747	1245	1247	1248	1249	1250	1251	1252	1253	1624	1251	1257	1258	1259	1260	1261	1262	

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DIAGNOSTICS LINE ADRES DADRES LC PROGRAM

DECK NAME = \*NAV \*

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1265						ENTRY	DUMY
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1269		1692	N	74000074		ATA	DUNRET
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1270		1694	N		1×		DUMY
1271		1694	N		SPIN		DUMY
1272		1694	V		HITE		DUMY
1273		1694	N		CDPU		DUMY
1274		1694	2		GASC		DUMY
1275		1694	N		TKTH		00.47
1276	1690n	1694	2		TORK	EGU	UUMY
					*		
1217						ENTRY	SPIN
1278						ENTRY	9116
1279						ENTRY	CDPU
1280						ENTRY	GASC
1281						FIJTRY	TKTH
1747						YXINA	TORK

Origin Graffings	NAVIGATION CUTPUT ROUTINE . NAVO			2 FICK UP TIME		GET DELTA I SINCE LAST OUTPUT		TEST FOR 340 SECONDS				G INCREMENT PDP-11 FLAG	9	2		S UPDATE DUIPUL PLAG	+> PUT TIME IN BUFFER		PUT LATITUDE IN BUFFER		.5	CONTRACT SOUTH STORY		2.5			PUT VV.VE.AND VN IN BUFFER				Σ.	PLIT VX.VY. AND VZ IN BUFFFR		
	GATION OUTPO	ENTRY NAVO	PTR NAVOR			SFU. TLPO	CFX	LXA 8		RIA NAVOR		ADU DECFLG	_		- '	STA TLPO+2				LDB LAT			LDA LUNG•Z				LOA VV.5					CTA PAYS		
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			00000078 NAVO	1400005A	54000058	DC0000DB	0000	0900	54430100	74000078	1400000A NAVOI	A4005100	30005100	1400005A	24000058	3C00000A	3000000	70005102	1400000A	24000008	30005108	70005106	1400000E	3005100	7C00510A	SCZAOOOA	1680004C	3E80510E	<b>6C2B0002</b>	64300608	SCZAUOOA	15400014	5580311A	200000
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חושפאספוורם בוואב		1284	1286	1297	1288	1289	1290	1531	1625	1293	1245	1296	1297	1298			1301	1303	1304	1305	1306	1307	1308	1310	1311	1312	1313	1314	1315	1316	1317	1318	1330	1350

STATISTICS

TOTAL SHORTS 154
TOTAL LONGS 746
TOTAL INSTRUCTIONS 902
PERCENT SHORT 17-1
GENERATED NUPS 25
THEORETICAL PERCENT NOP LOADING 8-1
ACTUAL PERCENT NOP LOADING 8-1

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DECK NAME=\*NAV \*

39

volume 11				
PAGE	766			
	985			
	786			
	1136 983	1156		
	969			
	1092 968 1151	1136		
LIONARY	1074 1250 966 1137	1097		
SKC 2000 CROSS REFERENCE DICTIONARY OF OCCUMRENCES FERENCES	1050	1094		
EFEREN	1215 611 950	1047		
NCES R	814 1210 610 848 1049	966	992	
2000 C	749 888 577 815	993	702	952 960 974 999 1004 1056
SKC 45 OF G	1117 4134 576 790	121 990 1278 1306 1310 1302 2892 1314	1279	951 959 959 973 973 998 1003 1039
SKC 2000 CHOSS LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	116 140 111 159 168	120 189 1272 272 293 293 20 291 294 295	201 223 223 224 226 227 227 227 227 227 230 231 231 235 235 235 235 235 235 235 235 235 235	238 252222222222222222222222222222222222
=*NAV * VARIABLE NAME		RG GG	9	
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DECK ADDRESS VALUE) DEC BIT	242 242 16 336	54 20742 20742 20746 20738 20738 20738 20736 20750	1000 000 000 000 000 000 000 000 000 00	120 120 120 120 120 120 120 120 120 120
XREF 1 RELATIVE COR SET HEX	0000C 0003C 000F2 00010 00150	00036 0015C 005106 05106 05100 05100	4 W D D D D D D D D D D D D D D D D D D	00000000000000000000000000000000000000

XREF 1	DECK	NAME	NAME=*NAV *		SKC	2000 C	HOSS HE	FEREN(	SKC 2000 CHUSS REFERENCE DICTIONARY	PAGE
OR SET	VALUE)	7	VARIABLE NAME	LINE NUM	LINE NUMBERS OF OCCUPRENCES DEFINED REFERENCES	CCURRE	CES			
00000	192	7	C034	256						
10000	200		5003	162						
00000	*0°	0	C037	652						
00000	200	0	C038	260						
40000	212		6039	261	1082	1083				
80000	216	6	0700	292						
00000	220	0	C041	563						
00000	554	3	C042	564	1015	1016				
000E4	558	0	C043	592	1007	1010				
000E8	232	0	4400	566						
0000	636	• 0	5045	197						
0000	244	0	0040	596						
0000	248	0	C049	270						
DOOFC	252	5	6500	27.1						
00100	556	5	0500	272						
00100	200	6	CD51	273						
80100	504	0	CUSS	722	584					
00100	568	0	C053	275						
00110	212	0	CD54	276						
00114	516	0	5500	27.2						
00118	280	0	6056	278						
20110	187	,	2500	612						
00100	200	. 0	8602	280						
00128	24.5	. 0	0000	282						
00120	300	. 3	2000	283						
00130	304	, ,	co62	284						
00134	308	5	C063	285						
00138	312	•	CD64	287						
00038	99	9	7090	134	736	733	734			
20000	75	-	CGDL	158	196	743	744	168	169	
2000	97	0	CARO	169	1198	1503	1001			
20000	2		51.70	196						
00000	0	0	CONCOM	197						
000052	82	4	CTRI	33						
99000	34	1	CTRZ	34						
95000	98	1	CTR3	35						
70000	1,	1	CMI	156	108	602	830	831		
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000 ZE	6		13	166						
25000	0 1	- 4	2962	191	005	600	734	111		
96000	2.5	0 1	2022	151	277	000	200	12		
000034		-	33	691						
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99000	102	4	DATA	17						
00000	12	S	DCAR	1117	11.39	1155		1224		
00000	16	9	N000	128	006	901	+06			
20000	2	0	UCSK	149	606					
25000	28	2	*000	370	916	1051				

XHEF 1	DECK N	AME	NAME = MAV .		SKC	000 CH	USS RE	SKC 2000 CROSS REFERENCE DICTIONARY	E DICT	IONARY						PAGE	3
OR SET VAL	VALUE)	2	VARIABLE NAME	LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	S OF OC	CURREN	CES										
00056 96 0005A 90 *****UNDEFINED* 05100 20735	86 90 FINED*****	20 5	0042 0043 0ECATA UEGFLG	371 373 290	11111 11116 664	11112 11119 684 1297		1125									
3000	122		DELS. DELT	339	445	443	613	419									
00010	62	01	DF ONE	214	603												
00024	4 0 4	1 1	0P0V 0P1V	17													
00020 0004E	32	1 1	DPVV	15 31													
	69	0-	DTOC	215	1266	963											
1000	1694	٠,	DUMY	1566	1265	1270	1271	1272	1273	1274	1275	1276		1130	1134		
ייינו	56	-	0.11	313	546	983	1093				331				6311		
0003E	200	4 4	OVX OVX	\$ 62	436	626	065	167	454	425	424	427	428				
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95000	**	1	01	171	192												
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00016	25	0	E16HT	502	0+31												
26000	156	-	13	179													
00008	168		£2	180													
JAOEF	INEDOODO		FENT		1254												
00000	207	50	FLGN	366	1218	1255	1551										
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82000	04	2	6641	352	205	208	551										
000050	1 1	~ ~	SCA2	354	1697	244											
00034	25	1 ~	GCA4	358	548	249											
00038	99	~	GCAS	360	161	495	245										
00030	09	~	9CA6	362	240	241											
00050	5 3	0 4	GMT	18	200												

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SAC 2000 CROSS REFERENCE DICTIONARY																												1072						
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9000	LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	1232 1233 1234 1235	333	917	852 852	864 868	885	1270	335	894 996	1055	1082	1050	1148	1139	1199	899	903	506	946	950	986	1202	1203	1208	1221	1231	319	1241	1243	1244	1261	1263	38
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RELATIVE	HEX NET	00098 0009E 0040C	0031E 00070	00320 0038C	00300	00306 0030E	00354	36900	00000	0040E	99500	00578	0053A	005E2	00506 0060E	00630	00418	00450	00424	00474	0047E	96400	00632	0000	0063E	00658	0066C	00058	00910	9000	00676	86900	26900	09000

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PAGE			517 625 787 1017	
			511 607 778 1011	
			509 772 005	
			602 761 1000	
			1134 487 591 735 981	
			1090 1 481 585 725 975	
ONARY	1305		986 1 476 1 713 967	
SKC 2000 CHOSS KEFERENCE DICTIONARY UF UCCURRENCES FERENCES	1304 1		945 471 932 932	
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OCCUP ENCE				
SKC RS OF REFER	659 601 606 666 665	592 678 685 685	1213 1241 417 417 417 41035 885 11265 11266 11316 11316 11316 11316 11316 11316 11316 11316	406 380 1258 676 7793 381
SKC 2000 CROSS LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	190 219 368 369 369 176 176 176 191 134	193 110 312 312 135 127 127 154	44 338 1295 1318 1286 200	112 123 165 165 202 121 203 198 198 198 203 203 203 26 46
NAME				
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NAME	1001111100			00000000000111
DECK NAME=PNAV ADDMESS VALUE) VARIA DEC HIT LC	228 444 87 78 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8012202223	NEU ************************************	002382508283
A A A A A A A A A A A A A A A A A A A	2 6	-	DEFIN DEFIN DEFIN 17	
XREF 1 RELATIVE A COR SET V	0000EC 0000EC 0000FE 000050 000050	00000000000000000000000000000000000000	**************************************	00000000000000000000000000000000000000

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SKC	LINE NUMBERS OF OCCUR DEFINED REFERENCES	73	7.1	74	76	59	99	000	6 7	70	2,5	200	65	62	90	1	0 0 0				53 645				926	52	000	700	2 0		83	84	85	980	62.00	86	56	107	108	61	29	63	26	96	100	101	707	103	105	
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XREF 1	TON SET	00046	0000A2	0000AB	000CA	96000	86000	80000	36000	00000	94000	0000	0008A	000082	90000 000H4	2/000	47000	2000	0000	0000	0007E	00000	08000	29000	90000	20000	40000	93000	00000	0000	00000	000BC	38000	00000	20000	20000	00000	000EA	DOOEC	38000	06000	26000	22000	*0000	20000	30000	000E0	0000	00054	

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PAGE			586 801 934 1036 663
			490 714 933 1034
			489 653 931 1033
		1196	1184 1186 1186 930 930 1020
		1195	472 651 929 1019 582
	553	4611	1110 1123 727 454 646 919 1018
SKC 2000 CKOSS REFERENCE DICTIONARY OF OCCURRENCES FERENCES	015	1193	921 1023 726 451 645 918 1013
SE 01C1	794	730	920 1022 604 612 881 1012 1012 1081
FERENC	617 617 1190 1188	720	910 915 842 842 982 1080 536
OSS KE	514 464 616 616 11189	717 724 724 753 740	984 914 914 608 977 977 535
COURRED	456 463 615 615 1008	1238 716 1228 1248 1248 775 742 742	4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
SKC S	455 465 459 441 441 972 978	405 447 1263 1263 1264 1267 1969 698	1277 193 193 193 193 103 103 103 103 103 103 103 103 103 10
SKC 2000 CRUSS LINE NUMBERS OF OCCURRENCES UEFINEU MEFEMENCES	106 204 204 204 204 204 204 204 204 204 204	111 1240 125 21 21 342 342 319 319 150 150 151 151 151 151 152 208 204	164 164 164 170 171 172 173 173 174 173
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PAGE		1030	095	969																															198			782	1129	
		1029	241	687																															683			181	1101	
		1026	946	989																															643			158	1077	
		1025	543	524																															249	792		151	1076	
		937	539	523																															149	191	719	150	1054	
*		958	538	525		550	100																	880		1313									634	682	718	486	1028	
TIONAR		126	537	521		444	200	1147			1599													873		N70									633	681	712	412	146	1500
SKC 2000 CROSS REFERENCE DICTIONARY		925	164	200		300	200	1071			1298													876		940	1318								635	649	711	024	936	1185
EFEKEN		954	994	464	3	200	000	1021			1288										1095			875		140	745								290	649	710	453	999	1147
HOSS R	NCES	923	484	466	557	200	520	595			1881		1301			191		1	1545		1045		1	874		2 2 3	659								589				841	
2000 C	CCURRE	729	483	493	613	505	513	867			674		1300	148		189			1544		166			866		659	628		804		608				526	531	657	215	840	1140
SKC	S OF O	728	784	764	269	200	212	570			673	1281	1289	817		188	1282	1197	675		168	415		965		414	627	648	803		808		688		525	530	561	214	818	1130
	LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES		145	146	305	305	307	211	43	205	36	1275	153	185	94	186	1276	504	37	317			187	324	318	316	130	320	131	321	132	322	145	5	147	148	149	212		
•	ASLE NAME																																							
VAN	A I		TEMI	TEMS	25.27	TEMS	TEMS	EN	TEST	THREE	TIME	TKTH	11,00	Σ.	MPR	Tw]	TORK	0.41	10	VE	VECADO	VECSUB	VECT	VELZ	2 1 2 2		× ×	VXE		VYE	71	VZE	٧.	WLUCOM	*	*	7	ZENO		
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DECK	VALUE) UEC BIT		184	188	**	* 2	95	50	106	14	88	1694	516	300	112	336	1694	12	26	090	*****UNDEFINED****	**** UNDEF INED ****	372	106	24	9,	200	06	54	**	59	25	132	0	192	196	200	58		
XHEF 1	COR SET		0000	000BC	0.000	91000	02000	0001A	0006A	90000	00058	0069E	80000	0012C	02000	00120	36900	20000	000050	05000	ONDesses	ONDOSOS	00174	0000A	45000	04000	0000	00054	00018	0005E	00010	00005	00084	00000	00000	40000	90000	00010		

A G B			
THIS LIBRARY **	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		UTHERS OFF
SOURCE SUBLIB USE EVEN EVEN  ***************************	CONSTANTS FOR SINCOS ROUTINE  CONSTANTS FOR SINCOS ROUTINE  A1SC DEC04596486  A5SC DEC046761082  A9SC DEC .079467215  A9SC DEC .00152034955  C1523 SCALEB 1.8  Divone DEC 1  TAME DEC 1  TOWN DEC 2  TERO EQU DFONE  TOWN DEC 1  TOWN DECSQ ROUTINE	SGRT(2) TO 18 DIGITS	0.9999999984.M=0 -0.333328936.M=-1 0.1999653478.M=-2 0.0949195495.M=-3 FRACTION MASK BITS ZERO AND ONE ON,ALL OTHERS OFF
20 ************************************	CONSTANTS FOR SINCOS ROUTINE  DEC	007FFFF FFFFFF 20000000 00400000 7F800000 7FFFFF 0.5426924.0 0.5426924.0 0.541330760.0 99FCFF32 40DA8279	7FFFFC 66610BA9 976EBFC 631329723 807FFFF FMONE 4F800000
SFAP SUBLIB USE EVEN EVEN GEANS MATH RETURN A U SINGLE PRE	** CONSTANTS I  ** CONSTANTS I	717 717 718 718 718	### ### ### ### ### ### ### ### ### ##
	40E487EF C0205106 3ED19AD6 3ED19AD6 3A4F8E60 00000000 000000000 40C000000	007FFFF FFFFFF 2000000 76400000 7FFFFF 4455420 40046279	7FFFFF AAAA820C 666108A9 61329723 807FFFF 4F800000
DECK NAME=*SUBLIB* S DADRES LC PROGR 20	0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ADME	3 00000 4 00002 5 00004 7 00000 8 00000 10 00000 11 00010 12 00012 13 00012 14 00012 15 00012	16 00014 17 00014 19 00016 20 00026 21 00027 22 00026 23 00026 24 00028 25 00028 26 00028	27 0002E 28 00030 29 00034 30 00034 31 00036 32 00036 34 00036
VERSION K20A0503 DIAGNOSTICS LINE			

<b>n</b>																														
PAGE																														
	S AS FULLOWS.	INPUT ARGUEMENT IS IN THE (A.B) REGISTERS.IT IS A DOUBLE PRECISION ANGLE IN PLANDIANS. THE SINE OUTPUT IS STORED IN THE LOCATION INDICATED BY THE POINTER IN THE CALL. THE COSINE IS RETURNED IN THE (A.B) REGISTERS.	torrotterateraterateraterateraterateraterater															SNATURA TO OT 9 19M4 TORMANO	CONCERT MAGE TO THE PROPERTY.				SEPARATE FRACTION FROM INTEGER							
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SINCUS MUUTINE, COMPUTES CALLING CONVENTION IS AS SINCUS NO UNIT ***	EMENT IS IN ANGLE IN P. ATION INDIC	***	SIMCOS 20	54	100	2	~~	2	~ ~	u ~	10	2	PREVIOUS 0.6	6,22.M	6.SINSV	I,AISC.M	1,4150	T25C	T15C	1050	ZERO	1150	12SC	1150	4.SCTURN	2.4.1	FMONE	ZERO	2011
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ACOS KOU LLING COU JS JRU PTR	CISION THE LOC	EVEN	ENTRY	TEMP	888	BSS	888	988	888	855	BSS	828	PTR	IMN	UBASE	LDX	BASE	STA	STB	Y TY	LDB	CXE	STA	STB	LOX	LAE	LDA	108	2
000000000000000000000000000000000000000	SIV	* * * * * *	****		CINCV	T0SC	12SC	T3SC	15SC	T65C	VEIX	COMRTN	SCTURN	STNCOS																
DECK NAME=*SUBLIB* S DADMES LC PROGRAM														03000000	60330016	01000031	5CUA0000		3803	7802	3401	5089	0480	3803	7802	SF 200016	36040002	1094	5089	2000
2. 2.85u				20	54	54	54					54		20	50	54	202	50	200	50	200	200	20	202		200	50	200	200	02
NAME					•	O N 0	1 0	000	12	14	0 0	20	22	104	106	000	110	0	21	117	115	117	113	120	121	124	126	123	130	131
ECK															_	0		-	-	. 21		• •	٠.		•	4.		0 -	. ~	2
DECK NAME=#						20000	20000	80000	0000C	0000E	01000	1000	91000	84000	0000A	00000	0000E	00000	000000	000072	000073	0000	000076	0000	62000	0000	0000 TE	000000	000082	0000
			99	69																83	4 10									
10AUS																														
N KS																														
VERSION K20AU503 DIAGNUSTICS LINE																														
> 0														0																

VERSION K20A0503	10503	DECK	IK NAME	11	NAME = + SUBLIB*				
DIAGNOSTICS	LINE	AURES	DADRES	2					SOURCE
	86		132	20	3905		STA	T45C	
	66		133	50			STB	T35C	
	100		134	20	1303		LUA	12SC	
SENERATED					0010				
	101		136	20	6404		Sr	81152	
	102	0	138	20	3807		STA	T65C	
	103	0	139	20			STB	T55C	
	104	0	140	20	1305		LDA	T4SC	
	105	0	141	90			STA	TZSC	
	106		145	50	640400C4		Sr	81152	
	107	0	144	20	3805		STA	T4SC	
	108		145	50	7804		STB	T3SC	
						* 0ETE	DETERMINE	CUADRANT OF ANGLE	
	100	20000	146	20	1301		00	TOSC	
	110	0	147	un	8088		AND	THREE	
	=======================================	0	148	N.	AUCC		ADU	SCUTB	
	112		149				STA	T0SC	
	113		150		7301		MIN	TOSC	
SENERATED									
	114	86000	152	20		SCDTB	PTR.	SCDTJ	
	115		154	V	9009	SCDIJ	חצר	Scol	
	91		155	V			מאר ה	Scaz	
	111	26000	156		POID		250	5003	
	011		121		- 14	2004	200	1350	
	113	36000	150		1000		274	1330	
	121		160	200	7400		STR	1.0	
	122		161				LDA	ZERU	
	123		162		5089		108	ZERO	
	124		163				SFU	T55C	
	125		164		6018		JRU	SCEX	
	126		165			SC01	LDA	ZERU	
	121		166		2089		108	ZERO	
	128		167				SFD	TSSC	
	159	0000	168		3A01		STA	5.4	
	130		159	200	1050		200	25H()	
	132		171				108	7680	
	133		172		7040		SFD	T35C	
	134		173		600F		JRU	SCEX	
	135		174		1089	2005	LDA	ZEHO	
	136	0000AF	175		000		609	ZERO	
	13/		170		2000		STO	1350	
	1 30	20000	178		7400		ATP.	1.0	
	140		179		2		LUA	1650	
	141		180		5306		LUB	T55C	
	142		181				JRU	SCEX	
	143		182		1307	SC03	LOA	T6SC	
	144	000087	183				L08	TSSC	
	146		101		7400		ATR.	4.0	
	147	000084	186	202	1305		LDA	1450	
		,							

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VERSION K20A0503

	T3SC	4.X4SV	1.x15v	6.22.M	9.0	EXPANSION OF POLYNOMIAL		COMMIN	T25C	T15C	A9SC	A7SC	T15C	ASSC	T15C	A3SC	T1SC	A1SC	T2SC	COMRTN	1	•
	LDB	LOX	LOX	IMP	KTA	XPANSION		PTR	MLF	STA	MLF	AUF	MLF	ADF	ALF	ADF	MLF	ADF	MLF	RTA	DBASE	DHASE
		SCEX						91152														
PROGRAM	5304	SF200012	SF080010	60320016	7300		0010	03000014	9303	3802	9084	6883	0 9302	8985	9302	8881	9302	0889	9303	730A		
27	20	20	20	20	20			50	20	20	50	50	50	20	50	20	50	50	50	20		
DADRES	187	188	190	192	000C2 194			196	198	199	200	201	202	203	204	205	505	207	208	509		
ADRES	98000	00090	000BE	00000	000CZ			1		777		170	-		153		7	1	8	00001		
INE	148	149	150	151	152			153	154	155	156	151	158	159	160	161	162	163	164	165	166	147
DIAGNOSTICS					152 (		GENERATED															

				SQU	ARE RUUT	sessessessessessessessessessessessesses	essessessessessessessessessessessessess	* * * * * * * * * * * * * * * * * * *
				z z z z	UT AKGUE	INPUT AKGUEMENT IS A DOURESTERS, OUTPUT IS THE IN THE (A+B) REGISTERS,	INPUT AKGUEMENT IS A DOUBLE PRECISION NUMBER IN THE (A,B) REGISTERS, OUTPUT IS THE SQUARE ROOT OF THE INPUT RETURNED IN THE (A,B) REGISTERS,	8) * * * * * * * * * * * * * * * * * * *
				****	****	**********	********************************	**********
169					ENTRY	DECSO		
170					EVEN			
171		2	9.		USE	20		
172			54		TEMP	24		
173	B 00018		7.	DSOSV	455			
174			24	Soll	200			
175			***	2105	200			
175			+2	2000	622			
1,00			*	100	622	7		
171			54	Σ	828	2		
178			54	40	455	2		
179	42000		54	TEMP	ess	5		
180	000056		54	TEMPZ	HSS	2		
181		7 04	54	DSORTN	858	2		
182			20		1156	PREVIOUS		
183	20000	2016	20 03000000 05050	05030	370	000		
701				DECIS	2 2	7.7.7		
107					NET I	10100 A		
185					UBASE	0.0505V		
199					XIS.	1.00.1		
187			20 SC0A0000		LUX	1.415C.M		
188					BASE	1.AISC		
189					STX	2.5412		
190	20000	220 2	20 1F200006		STX	4.5014		
191	DOODE		20 6338		JAL	IMARG	CHECK FOR NEGATIVE ARGUEMENT	
192					225	DECS1		
163			6030		180	Out	CHECK FOR ZERO	
77.			SO SHOP	THOS OFCE!	STA	TEMP	SAVE UPPER HALF OF ARG.	
105	0000		RORG		VVV	MANTIS	MASK OFF FRACTION	
100	00000	227			2			
107	2000		3000		STA	0 3	STORE FRACTION IN M	
100			1000		200	ONE	TIT AGAD GAD D	
190			20 1300		004	ONC.	CLEAR CARRI 811	
567	00000	2000	1 20		100		HOLLOWS NO DUNITHOUS NOTES	
002			1603		280	AL	CHECK MAGNITODE OF FRACTION	
102			6 304		746	DECSS		
202			70 0801		SKLD	_		
503			A090		ADD	XE		
507			20 6011		JRU	DECS4		
502			20 1304	DECS3	LDA	Σ		
505			20 0093		MUL	2	0.5826924*M	
207	1 000EE		20 A094		ADU	C2	0.41730760.0.5826924*M	
802		239 2	20 3805		STA	7.0	INITIAL APPROX FOR SONT (M) . YO	
602	00000		20 SC120002		LOX	2.2.M	SETS UP COUNTER FOR ITERATION	
210	0000F2			DECS2	LOA	I		
211						Chicago and Chicag		
	* 4000	100	201		000	~0	04/8	

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VERSION K20AUS03

							NUMBER												3Y SORT (2							ARG.			
							9												7							NE V			
SOURCE	(YO+M/YO)/2			DECREMENT COUNTER		SHIFT FRACTION RIGHT	STORE SIGNIFICANT PART OF NUMBER	LUAD XHZ WITH FLAG		ISOLATE EXPONENT	DIVIDE BY 2	ADD EXPONENT SIGN BIT	CHECK FOR DOU EXPONENT		ADD FRACTION				IF EXPONENT UND MULTIPLY BY SORT (2)							RETURN ZERO FOR NEGATIVE ARG.			
	-	٧0		2.1.M	DECS2	90	TEMP2	2.NONE	TEMP	EXPMOK	-	9112	B119.L	2.1.M	TEMP2		4.SURTZ.M	2.1.M	MULFD	2.5072	4.50T4	1.5071	6.16.M	9.0	ZERO	ZERO	00T	-	•
	SALD	STA		NWI	160	SALO	STA	LDX	LDA	AIND	SAC	ADU	SAM	dr I	LOR		LUX	NEI	35	LOX	rox	LOX	IMP.	RTA	LOA	108	JRU	OBASE	DBASE
						DECS4														TUO					1089 IMARG				
PROGRAM	0861	3805	0010	60130001	643000F2	9980	3807	SC10001A	20 1306	0608	1900	AOBE	8C00001E	6C120001	C307	0010	SCZZOOZA	60130001	640401CC	SF 100004	SF200006	SF080002	6C320010	7300	50 1089	2089	6088		
CC	20	50		50	50	50	50	20	20	20	50	50	50	50	50		50	20	20	20	20	20	20	20	50	50	50		
DADRES	000FS 245 20 0	546		548	250	252	253	554	256	257	258	529	260	292	564		566	568	270	272	274	276	278	280	281	282	283		
AURES	000F5	0000F6		000F8	000FA	000FC	0000FD	DOOFE	00100	00101	00102	00103	00100	90100	00100		00100	00100	30100	00110	00112	00114	00116	00118	61100	00114	00118		
LINE	213	214		215	216	217	218	219	550	221	222	223	554	555	526		227	228	529	330	231	232	233	234	535	536	237	238	539
DIAGNOSTICS LINE			GENERATED													GENERATED													

PAGE																															
	SOURCE	• ARC TANGENT ROUTINE. TAKES AS INPUT TWO INPUTS, ARCTAN(Y/X). • CALLING CONVENTION IS AS FOLLOWS. ••••••• LDX 4.X.M ••••••• US DECATN	• THE DIVIDEND IS PASSED IN THE (4.8) REGISTERS. THE ADDRESS OF THE DIVISOR IS IN XR4. THE OUTPUT IS IN PI RADIANS AND IS • RETURNED IN THE (4.8) REGISTERS.	ENTRY DECATA	* ARC TANGENT RUUTINE				0ETN4 BSS 2			2 SH NST		ATNYT BSS 4	688	USE	DECATN PTR 0.6	UBASE	STX		STX	STA TEMI	LDA 2,4	JRG QUAD4	STA	חאר .	STA	JRU	GUADIC	LAE	URU.
BL18*	PROGRAM																03000000	Cascott	20 15080002	SC040000	1F200004	3804	1201	6205	3803	5006	3803	20 600A	6205	34000190	9009
-*Su	2					50	57	**	37	5.0	54	50	54	57	54	50	20 0	540	20 1	202		20 00			202			20	202		20
DECK NAME=*SUBLIB*	ADRES							4 4		200								680	288			294			300			305			
DEC	ADRES D							00002C	0002E	00032	000036	0003E	00000	25000	84000		00110	0002A	00150	00000	00124	00126	00128	90129	00120	00120	00130	00131	00133	00134	00137
503	INE			241		543	544	546	247	642	250	252	253	452	256	152	258	260	192	263	564	265	267	268		271	273	274	276	277	
VERSION K20A0503	DIAGNOSTICS LINE ADRES DADRES LC PROGRAM																														

VERSION K20A0503

SOURCE	X/X	CHECK FOR THE FOLLOWING CONDITIONS 0/1.0.1.0/0.0/-1.0/-1.0/0	IS Y .6T. 0		IS x .61. 0				0 19 SI X	2							AHG=ABS (AHG)		15 ARG .6T. 1.0					1.0/ARG	Z=ARG OR 1.0/ARG	YLIMIT=2.0-54HT(3)				0=0				Y+SQRT (3)			
9D1 9L0C	DVFU	CHECK FOR THE FOLLOWING C	ATNI	5.4	ATN0	P102	ATWYT+2	ATNYT	25.00	2640	ATNYT+2	ATNYT OI OC	ATNZ	7E#1+2	ZERO	ZERO	ARG+2	ARG	ATN3	ARG+2	ATN31	FONE	4. ARG. M	DVFD	ZTN	YLIMIT	ZTN+Z	ZTN	ACOMP AERO	CERC	ATNS	Z+N+Z	ZIN	TENIES	TEMI	ZTN+Z	N17
STA	SC	HECK FOR	SEN	LOA	220	607	STA	818		100	STA	STB	JRG	STA	LUA	108	STA	STB	JRG	L08	JRC	LOA	LDX	STA	STB	SFD	LDA	108	SC.	STA	JRU	LOA	109	AFU	STB	LDA	202
STABL									ATM				6206 ATN1				ATNZ					ATN3		ATME								ATNA					
GRAM 0146							2	-	2	0	1	U	9		1	0	-	0		01	2009	5080	00	9	80	œ		m	10	-	4	-		9	10	9	2308
РКОБКАМ 340001А6 3803	640401F6		6100	1201	9019	50A3	3800	7800	1000	5089	3800	7303	950	3805	1089	5086	3807	7806	6204	5306	09	108A	SF22000C	340401F6	7808	D848 6208	1309	5308	54040188	3808	6018	1309	5308	SHOE	7804	1309	
2222	50 6404		6100		20 6106	20 50A3	50	20 780C	20 1000	20 1083	20 380D	20 7303	50	20 3805	1089		20 0904	20 7606	20 6204	20 5306	20	20 1084	20 SF22	20	20	20 0848	20 1309	20	20	20 1067	20 6018		20 5308	20 3405	20 20	20 1309	07
2222	50 6404		20 6100	20	20 6106	20 50A3	50	20 780C	20 1000	20 1083	20 380D	7303	50	3805	20 1089	20	20 0904	7806	20 6204	20 5306		20 1084	20 SF22	20	20	0848	20 1309	20		20 1067	20 6018	20	20 5308	3000	20 20	1309	07
312 20 314 20 315 20	316 20 6404		20 6100	319 20	20 6106	322 20 50A3	323 20	20 780C	326 20 1089	327 20	328 20 3800	20 7303	331 20	20 3805	334 20 1089	335 20	337 20 0804	338 20 7806	20 6204	347 20 5306	343 20	344 20 108A	346 20 SF22	348 20	351 20	20 0848	354 20 1309	355 20	356 20	20 1067	360 20 6018	361 20	362 20 5308	20 3405	365 20	20 1309	367 20
312 20 314 20	00130 316 20 6404		318 20 6100	0013F 319 20	320 20 6106	00142 322 20 50A3	00143 323 20	324 20 7800	00145 325 20 1089	00147 327 20	00148 328 20 3800	329 20	00146 331 20	332 20 3805	0014E 334 20 1089	0014F 335 20	337 20 0804	338 20 7806	00154 340 20 6204	347 20 5306	00157 343 20	344 20 108A	0015A 346 20 5F22	0015C 348 20	0015F 351 20	352 20 0848	00162 354 20 1309	00163 355 20	356 20	00167 359 20	00158 360 20 6018	00169 361 20	0016A 362 20 5308	363 20	00160 365 20	366 20 1309	00101 367 20

GENERATED		1	שמונים השמונים רב		E TOOK				
	331	001100	366	07			SFD	IRT3T	Y-1.0/SQRT(3)
	335	00172	370				r0x	4.RT3T.M	
		00174	372		-		Sr	MULFU	(Y-(1,0/SQRT(3))) *SQRT(3)
		00116	374				LOX	4. TEM1.M	
		00178	376	02	640401F6		Sr	DVFD	(Y-1.0/SQRT(3)) *SQRT(3)/(Y+SQRT(3))
	336	0017A	378		3809		STA	Z+NIZ	
		00178	379				STB	ZIN	
		0017C	380	50	640401HB		Sr	YCOMP	
	339 (	0017E	382	50			LDA	90Id	
		0017F	383		3400		STA	v	C=P1/6
		00100	384	02	1098	ATNS	LDA	N164	
	345	00181	385				MUL	Z12N	A9*Z2
		00185	386		0E41		SRA	1.4	
		60100	387		ACOA		ADO	ATTA	A9*Z2*A7
		00184	389		030		ACL.	ZTZN	(49*22+47)*22
,	010	50100	300				SKA	***	
		99100	340		ACA		AUG	ASIA	(A4-22-47) *CA-52-45
,		19100	165		DSUA DSUA		MOL	N217	27. (SP+27. (18+27.64)
	100	50100	345		1470		440	10.6	140472-471472-47147
		40100	25.				004	AC LA	(49*22*47)*22*45)
		40100	160		000		300	1717	149*LC+A11*LC+A31*LC+A31*LC
	200	50100	295	200	1430		A NO	****	14.054104.054134.054154.054041
		20100	270		POA		400	A114	TA+77-15-421-75-421-75-421
, ,	304	08100	397		0308		MUL	NIZ.	7*(IV+27*(FV+27*(SV+27*(IV+27*6V)
		30100	265	CT DA			Y07	4.1CM1	
, .	950	06100	200	200	0540		ANG	***	7.00472.471 672.4651 672.471 672.471 167.4
***		20100	405		OKAO		O X E	,	7.7-114.77-164.77-164.77-114.77-641
	350	00103	403	-1007			200	531523	CORRECT FOR IMPLICIT MILITIPLY BY 28831
		20100	70%	700	3000		200	ATMYTA	במערכו ומע זון רוכזו וופרוזורו פו ב- זו
		100100	700				1 1	TAINTA	
		00100	404		1307		000	496+2	
		00167	407		2304		100	466	
		10100	100		CHAC		260	DEONE	
		66100	507				JRG	ATN6	
		A6100	410		1300		LUA	ATNYT+2	
		0019B	411		530C		108	ATNYT	
		00190	412		7303		HTA	OLOC	
	369 (	06100	413		10A2 UD2	905	LOA	P1+2	
		0019E	414		2041		108	Id	
		96100	415				SFD	ATMYT	
		00100	416		9009		JAC	100	
		00141	417			600	AFU	Id	
		00142	418		6004		220	100	
		00143	413			400	LUA	ZEHO	
		00144	450		2083		LUB	ZERO	
		00145	124		0900		SFU	ATAYI	
	378	00146	455		SC220042	100	LUX	W. I 4.4	
		00143	175		_		50	OVED	AINTICEL AND SEE RELORNED IN PL MADIANS
		MAIDO	975		200000		, COX	4.05 IN4	
		24100	400				Y07.	1 30 T	
	200	30100	433	200			410	4.00	

4		
	SOURCE AINYT=P1/2-AINYT	ISOLATE EXPONENT ADD SIGN SHIFT AND MULITPLY BY 2 DIVIDE BY 2 SAVE EXPONENT OF 2 ISOLATE FRACIION CURRECT FOR IMPLICIT MULTIPLY BY 2**31 Z**2
	P102+2 P102 A1NYT ATNYT ATNYT 0L0C	710KN EXPMGA BITO1 22 22 22 22 22 22 22 4 1 1 1 1 1 1 1 1
	LDA SFD STA STA RTA	PTR LOND STAP STAP STAP STAP STAP STAP STAP STAP
	A	4,€СОМР
DECK NAME=*SUBLIB*	ОНЕ S LC РИОЬВАМ 433 20 1044 АТ№ 435 20 2083 ВВОС 435 20 2080 436 20 300 436 20 7303 °	20 0300001C YCOMP 20 0500 20 050 20 050 20 050 20 050 20 060 20
=#SF	200000000000000000000000000000000000000	20 030000 20 03000 20 0556 20 0566 20
NAM	DHES 433 434 435 437 437 434	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
DECK	DIAGNOSTICS LINE ADHES DADHES LC PRUGRAM 384 00181 433 20 10A4 385 00185 435 20 50A3 386 00183 435 20 DBDC 387 00184 436 20 380D 388 00185 437 20 780C 389 00186 436 20 7303	000188 000184 000184 000185 000185 000185 000185 000185 000185 000185 000185
0203	384 384 385 387 388 389	000 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
KZOA	1103	9
VERSION K20AUS03	DIAGNOS	GENERATED

VERSION K2040503	40503		DECK NAME=*SUBLIB*	*SUBL IB*					PAGE	12
DIAGNOSTICS LINE	LINE		ADRES DADRES LC	C PROGRAM	*****	* * * * * * * * * * * * * * * * * * * *		SONNCE		
					SUE	LING COLLINE	SUBMOUTINE MULFD, HYBRID DOUBLE P CALLING CONVENTION IS AS FOLLOWS. ** LDX 4.4AG.M	SUBHOUTINE MULFD. HYBRID DOUBLE PRECISION MULIPLY ROUTINE ** CALLING CONVENTION IS AS FOLLOWS. ** LOX 4.AMG.M ** US MULFD		
					THE THE REGI	THE MULTIP THE MULTIP REGISTERS.	ICAND IS PASSED IN THE IER IS IN XR4. OUTPUT	MULTIPLICAND IS PASSED IN THE (A.B) REGISTERS. ADDRESS OF WLITPLIER IS IN XR4. OUTPUT IS RETURNED IN THE (A.B) STERS.		
2000000				0000	****	*****	****			
GENERALED	117			0010		FVFN				
	412					ENTRY	MULFO			
	413		20	0 1		USE	20			
	415	0000A	74 24	• •	TAB	888	***			
	416			•	TXB	BSS	2			
	417		80 24	•	TXA EXT	HSS	200			
	419			• •	TYA	828	. ~			
	420			•	RETM	828	2			
	421			0		USE	PREVIOUS			
	452	001CC	460 20	0 03000000 0	MULFD	T T N	0.6			
	454			*		UBASE				
	455			6102		S. S. S.	XNZ CHECK FO	CHECK FOR MULTIPLIER=0		
	427	00100	466 20	3803	XNZ	STA	TXA			
GENERATED										
	479	00100	468 20	14020000		STA	10 H			
	430					STA	TYB			
	431	00108	472 20	1303		LUA	TXA			
	433			0 3802		STA	TXB			
	434	-				LDA	2,4			
	435	00100	477 20	2019		2 2	PRODZ			
	437			5200	YNZ	108	7.0			
	438					STA	A >> +			
	440	001E1	481 20	3804		STA	178			
	441			9303		MLF	TXA			
	445	00163	483 20	3801		STA	TAB+2			
	155					LDA	TYA			
	445			9305		ALF.	TXB			
	440	001E7	487 20	3801		AFD	TAB TAH+2			
	448			7800		STB	TAB			
	440	001EA	490 20	0 1305		LDA MLF	TXA			

SOURCE

5.12.m 0.6 0.M MULOUT AFU IMP RTA LUB JRU URASE VERSION K2040503 DECK NAME=\*SUBLIB\*
DIAGNOSTICS LINE AURES DADRES LC PROGRAM
451 001EC 492 20 9800 NUFLO 6
GENERATED 452 001EE 494 20 6C32000C MULOUT 1
453 001E0 496 20 7300
GENERATED 454 001F2 498 20 54020000 PRODZ L
455 001F4 500 20 6086

VERSION K2040503	5001	U.E.C.K	NAME = 9	DECK NAME=*SUBLID*			SOURCE	PAGE 14
DIAGNOSTICS LINE ADRES DADRES LO FROMEN	INE	TORES DA	טיב כי בי		*****	****	\$	
					CALLING	D ROUTING CON	DUFU RUUTINE, MYBKID DOUBLE PRECISION DIVIDE RUUTINE. CALLING CONVENTION IS AS FULLOWS. ** LDX 4.0VSK." *** JS DVFD	
					1HE	THE DIVIDER THE DIVISOR HEGISTERS.	THE DIVIDEND IS PASSED IN THE (4.8) REGISTERS. THE ADDRESS OF THE DIVISOR IS IN AR4. OUTPUT IS RETURNED IN THE (4.8) HEGISTERS.	
					****	*****		
GENERATED				0100		CVEN		
	123					ENTRY	DVFU	
	160		21	0		USE	20	
					TAC	RSS	17	
	701	00000	42 26		TA T	655	4	
		00000		,	18	HSS	4	
		+9009		,	4	988	<b>J</b>	
	466	60066	104 24		25.4	455	<b>1</b> ~	
	101	20000	02 001	, 0		USE	PREVIOUS	
	469	001F6			OVFD	7 7 1	9.0	
	017	00168		20 60330014		IMN	6,200 M	
	471	00000		20 416.2		IN NA		
	715	00154	5000	20 0102		240	Zono	
		COLFC		380]	NZ1	STA	TAC+2	
		001FU		20 74.030.00		STB	TAC	
	476	001FE		20 3602		STA	A	
	110	00700				STA	2	
	479	20700	514 2	120		LUA	2.5	
	1000	50200	515	20 6014		J.KC	Zauu	
	495	00200	517 6	20 3803 NZ2	MZ2	STA	TA+2	
	493	00500	518 6	2501		600	1.01 1.01	
	1 0 1	10200	520 6	20 3404		STA	73	
	480	60200		20 1301		LUA	TAC+Z	
	487			5300		LOB	TAC	
	001	90200	5263 6	5059 07 0 3809		STA	10.5	
	440			20 9304		ALF	Te.	
	491		526 6	3807		STA	24.2	
	745	40200		20 1309		1.04	10.2	
	177			20 9303		MLF	TA+2	
	445		530 6	9606		AFD	67.0	
	496		531	7085 07		a I	2 2	
	177	00215	533 6	20 1301		LUA	TAC+2	

PAGE 15

SOURCE

 VERSION K20A0503
 DECK NAME=\*SUBLIB\*

 DIAGNOSTICS LINE ADRES DADRES LC PRUGRAM
 LDB TAC

 499 00216
 534 20 5300
 SFD TP

 500 00217
 535 20
 DB06
 SFD TP

 501 00218
 535 20
 DB06
 DVF TA+2

 502 00219
 537 20
 9408
 AFD TQ

 503 00214
 534 20
 9408
 AFD TQ

 504 0021C
 540 20 7300
 NTA
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 505 0021E
 544 20 6086
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VERSION K20A0503 DECK NAME=#SI DIAGNOSTICS LINE ADMES DADMES LC		UBL 18*			SOURCE
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			PEGI	JT AR	* INPUT ARGUEMENT IS A DOUBLE PRECISION NUMBER IN THE (A.B) * REGISTERS. OUTPUT IS RETURNED IN THE (A.B) REGISTERS.
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110 24			EXPSV BS	828	~
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			× 1	828	2
			7 10x3	822	,
132 24				888	2
			EXPRTN BS	888	2
		000000000	000	USE	PREVIOUS 0.6
200		D300000		Z	W. 45.0
				UBASE	
550 20		1F200016		STX	
		15080014		STX	1.EXR.
		SC040000		LOX	1.4ISC.M
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556 20		55.550054	- i	ייי	# COCE * H
202		7401	0.00		XTD
		3802	S		xT01+2
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		5086	36	60.0	ZERU
		20 0857	ה ט	SLL	2.3
265 60		20 0657	n in	SRA	23
		0480	Ü		
		20 7603	S		XTUZ
569 20		3804	S		xT02+2
	_	20 5301	_		XT01
571 20		20 1302	20	SED	X101+2
	-	0020	ñ		201
574 20	-	5022	7	LDX 4.	4, LN2D2, M
576 20			7		MULFO
578 20		1806	S U	n	
580 2	00	20 SF22000C	, _	LUX	4.YD.M

SOURCE

DECK NAME=\*SUBLIB\*

VERSION K20A0503

	JS MULFD	0		×	LUB A1D			LUX 4.XTD1.M	JS DVFD			STA XTD1+2	×				JU EXP2				2		STA 2+2	STB Z			JS MULFD	ADU N			LOX 1.EXR1	d.	RTA 0.6	OBASE 1	DHASE 6
																		EXPI		EXP2															
PROGRAM	640401CC	9882	3802	7601	5080	1081	0020	SF220002	640401F6	9086	DAAE	3802	7801	1307	5306	6102	6003	A085	0020	SF220002	640401F6	6880	3809	7808	0040	SF220010	640401CC	A305	0020	SF200016	SF080014	60320018	7300		
CC	20	50	50	07	50	50		20	20	50	50	50	20	50	50	50	50	50		50	50	20	50	50		50	50	50		50	50				
DADRES	582	584	585	586	587	588		290	265	594	565	965	265	298	665	009	601	602		604	909	809	609	610		612	614	616		618	620	622	429		
AURES	00246	00248	64200	0024A	84200	0024C		0024E	00220	00252	00253	00254	00255	00256	00257	00258	69200	0025A		0025C	0025E	00260	00261	00262		00264	00266	00268		00264	0026C	0026E	00270		
LINE	551	552						557	558			561					995	267		568	569	570	571	572		573	214	515						580	581
DIAGNOSTICS							GENERATED												GENERATED						GENERATED				GENERATED						

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	SOURCE					٠					POINTER TO RESULTANT VECTOR V3		POINTER TO VECTOR VZ		POINTER TO VECTOR VI					NEXT ELEMENT		STORE RESULTS								
		A ADD ROUTINE 46 SEQUENCE VECADD 47 V1 V2 V3	VECADO	50	v ~ ~	2 PREVIOUS	9.0	6.VECA3	4.VECA4	5.VECA5	S.VECAIN		4.5.1	3	1.5.0	2	2,5	0.3	2.4	6.5	4.5	2.4	4.4	10.5	2.2	10.4	9.4	3.VECA3	5.VECA5	W. 0. 0
		**************************************	E C C C C C C C C C C C C C C C C C C C		VECA4 BSS	-	VECADD PTR	UBASE	X IS	STX	LUX	LXA	I AF	LXA	100	LXA	L0A	AFO	STA	LOA	LDB	STA	STB	LUA	LD3	STA	818	LDX	LDX	dΨI
UBLIB*	PROGRAM		0010				03000000	0000000	1F200002	1F280004	36460006	0640	36840004	8690	0000	06A8	1281	0866	3401	1283	2825	3403	7A02	1285	2584	3405	7404	of 180000	SF 280004	60320006
DECK NAME=*SUBLIB*	DADRES LC				136 24		626 20		632 20		636 20		642 20		44.4 20		649 20		652 20	202	50	626 60			999 50			664 20		670 20
	E AUMES		n 1		4 0008A 0008A		2 00272	-	00278 6 00278		8 0027C		1 00282		3 00.386	-	5 00289					3 00291			7 00294				2 00290	
VERSION K20A0503	DIAGNOSTICS LINE ADMES DADMES LC		GENERATED 583	5865	220	590	592	594	595	265	965		GENERATED 601		GENERATED	409	505	109	809	019	119	516	614	615	919	618	619	620	525	623

PAGE 19

SOURCE

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VERSION REGAUSO3 DECK NAME=\*SUBLIB\*
DIAGNUSTICS LINE ADRES DADRES LC PROGRAM
624 002A0 672 20 7300
625

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DIAGNOSTICS LINE ADMES DADMES LC PROGRAM

DECK NAME=\*SUBLIB\*

VERSION K2040503

																								VECTOR V3																						
																								POINTER TO RESULTANT VECTOR V3			POINTER TO VECTOR VZ		POINTER TO VECTOR VI																	
	INE																							POINTER			POINTER		POINTER																	
	**************************************	6 SEWDENCE	VECSUR		100	٧3				VECSUS	50	54	2	5	2	2	PREVIOUS	2.0.0	6.VE/C3	3.VFC53	4.VFC54	5.VECS5	5. VECSTN	6.5.1	1		4.5.I	,	2.5.1	2	2.5	0.5	0.3		7.0	4.0	10 0 4 4 W W	10011 1000	100110 100410	1004404 4000444	10044041 400m444 6	10044040 0 . 4 N N W 4 4 . N	1004404 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1004404	10044040000 	001 001 001 001 001 001 001 001 001 001
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									1	•	•		06000 1			\$ 0000 to			44200								5 00282		7 00286					20000												
								GENERATED	129	879	659	630	631	632	633	634	635	956	126	959	079	541	249	643	779	GENERATED	545		GENERALEU 647	849	649	009	651	559	1	92	654	655 655 656	654 655 656 657	400 400 400 400 400 400 400 400 400 400	426 626 626 626 626 626 626 626 626 626	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	20000000000000000000000000000000000000	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

PAGE 21

SOURCE

IMP 6.6.M MIA 0.6 DBASE 6

VERSION K2080503 DECK NAME=\*SUBLIB\*
DIAGNOSTICS LINE ADRES DADRES LC PROGRAM
567 UGZCE 718 20 60320006
569 00200 720 20 7300
669

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GENERATED 571 572 573 674 675 00094 675 00094 677 00096 678 00096 678 00096 681 00202 681 00204 683 00204 684 00204 684 00204 684 00204 685 00204 686 00204 687 00204 689 00204 689 00206	20 154 24 154 24 156 24 156 24 156 24 172 20 172 20 172 20 172 20 173 20	0.700 0.300,000 6C.330,000 1F.100,000	### The state of t	### This Submouting seesessesses	THIS SUBROUTINE ADDS TWO 3X3 MATRICIES CALLING SEQUENCE JUSTION WHO WITH WITH WITH WITH WITH WITH WITH WITH
00000000000000000000000000000000000000		0700 0300000 6C330000 1F196000	INTERPRETATION OF THE PROPERTY	115 SUBROUTINE  MATOAU  ***  V1  V2  V3  WATOAU  ***  ***  ***  ***  ***  ***  ***	ADDS TWO 3X3 MATHICIES
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.700 0.300,000 6C.330,000 1F.100,000	MATUS 455 MATUS	MATUAU  ***  V1  V2  V3  V3  E0  24  24  2  26  2  2  2  2  2  2  2  2  2  4  4  5  6  6  6  6  6  6  6  6  6  6  6  6  6	SAVE REGISTERS
70000000000000000000000000000000000000		0.700 0.300,000 6C.330,000 1F.190,000	S S S S S S S S S S S S S S S S S S S	St	SAVE REGISTERS
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00000000000000000000000000000000000000		03000000 6C330000 1F190000	Pregagagate 2	75	SAVE REGISTERS
00000000000000000000000000000000000000		03000000 6C330000	S S S S S S S S S S S S S S S S S S S	St	SAVE HEGISTEMS
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21000000000		03000000 6C330000 1F100000	2 - 2		SAVE REGISTERS
000000000000000000000000000000000000000		6C33U006	4 5	. 0	SAVE MEGISTEMS
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			80 ST		SAVE REGISTERS
4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			12		SAVE REGISTERS
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			CTX		
0000000			V:0	3.MA103	
640 640 640			STX	4.MAT04	
8860			STA	5,MA105	
600		200	LUX	Z.MAIKIN	to atotte of outlines
0.69			LAF	2.2.1	POINIER TO MAIRIA VI
107	138 20	200	LYA	,	
			30.1	1.0.7	POINTER TO MAIRIX V2
	140 20	35040004	LAR.	1.2.4	יייייייייייייייייייייייייייייייייייייי
			444		
509	744 20	3504	LAF	6.2.1	POINTER TO RESULTANT MATRIX V3
544 002F A			LXA	2	
695 002EC			rox		INITIALIZE LOUP COUNIER
		1181	MATLOP LDA		
			F08		
		4400	D P U	4.0	
14200 569	753 20		4 2		
		000	210	0.0	
			100	2.0	
102 002F4		2120	500		
			AFO	***	
104 00250	158 20	2000	ALC	0.0	
		204/ 2011 0	000	10.4	
202 00248	761 20		101	201	
		CAR	AFD		
108 00CF A	102 201	*0**	010	10.01	

DECREMENT FUR NEXT PASS

RESTORE REGISTERS FOR EXIT

3.12.M 4.12.M 2.13.M 2.13.M MATLOP 2.MATO2 3.MATO4 5.MATO5 6.8.M IMP IMP IMP JGU LDX LDX LDX LDX RM RM DBASE

PAGE

				•																																																		
SOUCE		SINGLE PRECISION 3X3 MATRIX MULTIPLY MOUTINE	WORD OF A DOUBLE PRECISION NUMBER	CALLING CUNVENTION IS AS FULLOWS.																												(XH3) = ADDHESS OF MATRIX A			(XR4) = ADDRESS OF MATRIX B			(XRS) = ADDRESS OF MATRIX C			END OF MATRIX FLAG		(AR2)=100P COUNTER											
		CISION 3X3 MA	ON THE SECOND	NVENTION IS A	MUL533	8.4	ī	N.		200	MULS 33	20	24	,	,	2	2	2	2	2	PREVIOUS		9.0	6.10.M	6.MULSX2	2.MULSX2	3.MULSX3	4.MUL.5X4	5.MULSX5	2.MULSTN	2,2,1	3		4.2.1	,		6.2.1	2		5,32,4	S.MULEND	5.32.4	2.2.M	2,3	2.4	5.5	14.3	**9	2.5	2.5	26.3	10.4	5.5	
	The second	SLE PRE	RATES (	ING CL	SC	750	PIX		2		ENTRY	USE	TEMO		922	988	888	828	888	888	USE		214	NWI	UBASE	STA	STX	STA	STX	1.03	LAE	LXA		LAE	LXA		LAE	LXA		I MP	STX	ZE	LOX	LOA	MLF	STA	LOA	MLF	AUF	STA	LUA	7	ADF	
		* SIN	* OPE	* CALL	SC ******	*****	******	*******	0000000						MULSAZ	MULSX3	MULSX4	MULSXS	MULEND	MULSTN			MULS33																					MULS11										
																						0010	03000000	6C33000A		16 100000	1F180002	1F200004	1F280006	SF100004	35040002	6690	0010	35040004	0640	0700	35040006	0648	0010	6C2A0020	1F280008	6C2B0020	SC120002	1181	9201	3481	1187	9203	BABI	3481	1180	9205	BABI	
,												50									50		50	50	54						202	50		50			50	07			50					50	50	50	50		02	50	50	
1															162	164	166	168	170	172			788	790	162	792	707	126	70.7	000	000	804	,	806	808		810	812		814	816	818	820	825	823	824	825	826	827	828	829	830	831	
2															0000A2	0000 A4	0000A6	0000	0000	ODODAC			00314	00316	0000	00318	01500	00 410	00316	00350	00355	00324		00356	00328		0032A	0032C		0032E	00330	00332	00334	00336	60337	00338	00339	0033A	00338	00330	00330	0033E	0033F	
1											124	725	1	97/	121	128	129	730	731	732	733	2	734	735	136	737	734	730	140	141	147	743		744	145		740	141		748	149	150	751	752	753	154	755	756	151	758	159	160	761	
DIAGNOSTICS LINE ADRES DADRES LE PROSERTE																						GENERATED											GENERATED			GENERATED			GENERATED															

PAGE

SOURCE

DECK NAME=\*SUBLIB\*

VERSION K20A0503

DIAGNUSTICS LINE ADRES LC PROGRAM

764 00344 836 20 6C240004 IMP 2.1.M

765 00344 846 20 6C240001 IMP 2.1.M

766 00344 844 20 6C180001 LDX 2.2.M

768 00345 844 20 6C180002 IMN 3.12.M

770 00350 848 20 6C18000C ICL 5.MULEND

771 00350 848 20 6C18000C ICL 5.MULEND

772 00354 855 20 6A300356 JGU MULS12

774 00354 855 20 6A300356 LDX 2.MULEND

775 00355 856 20 5F100000 MULS22 LDX 3.MULSX2

776 00356 856 20 5F100000 MULS22 LDX 3.MULSX2

776 00356 856 20 5F100000 MULS22 LDX 3.MULSX3

777 00356 866 20 6C320004 LDX 5.MULSX3

778 00356 866 20 6C320004 IMP 6.10.M

778 00356 864 20 7300 B64 20 7300

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	SOURCE	A 3X3 BY A 3X3 MATRIX E US AS FOLLOMS					END ADDRESS FOR MUL 33					SAVE REGISTERS			X2=RETURN AUDR.	Tall TAM THUNK OF STO - 3V			X4=PIK TO INPOL MAI C = 3		X3=PTR TO OUTPUT MAI =K	INITIALIZE LOUP COUNTER	SAVE FND OF DUTPUT MATRIX		COMPUTE ONE ELEMENT OF OUTPUT						INCKEMENT XX4		
		**************************************		20 54	. 2	~ ~	~ .	u		14N 6.12.M	)t	2		4.MU34			r		1	6.2.1		LUX 2.2.M	3,32,4				MULFU				E. 4.4		2.3
			EVEN	USE TEMP		MU34 HSS		MU3RIN BSS		MUL33 PTR	. 5	STX	STX	STX	rox	LAE	LXA	LAE	LXA	LAE	LXA		JAP.	X - 0	MUL33A LDA		SC			609			STA
BLIB*	PROGRAM		0000							03000000	96330000	17100002	11 180004	1F200006	SF 10000C	35040005	0648	3504	0640	35040006	699	9010	11.	11 18000A				3981	1247				3961
DECK NAME=*SUBLIB*	DIAGNOSTICS LINE ADRES DADRES LC			24		178 24		194 24		866 20	24				878 20		882 20	884 20	886 20	888 20	890 20	962 20			02 000	901 20			905 20			910 20	913 20
DEC	AURES DA				0000AE	7700		00000			00000				00365					00378					00384		-		00389				16500
C20A0503	ICS LINE		781	783	785	787	189	190	792	793	705	196	797	148	700	801	805	803	804	O 405	808	03	808	608	310	812	813	418	815	817	618	616	929
VERSION KZUAUSUS	DIAGNOST		GENERATED														2	GENERALED		GENERATED		GENERATED											

DECK NAME=\*SUBLIB\*

VERSION K20A0503

		,					
DIAGNOSTICS LINE	E AURES	S DADHES	7	PROGRAM			SOUNCE
82	2 00392	414	20	7980	STB	0.3	
82	3 00393	915	20	1280		56.5	
824	4 00394	00394 916 20 52BC	20	52BC	F108	54,5	
GENERATED				0010			
	5 00396	918	20	6C220004		M. +. +	INCHEMENT XR4
950	6 00396	920	20	640401CC		MULFU	
327	7 0039A	922	20	20 9980	AFD	0.3	
82	8 0039	923	20	3981		2,3	
92	9 00390	956	20	20 7980		0.3	
GENERATED				0010			
	0 0039	956	50	60230008		M.8.4	SET POINTERS FOR NEXT PASS
83	1 003AC	958	20	6C140004		3.4.M	
83	2 003A2	930	20	6C2A0004		5.4.M	
93.	3 003A4	935	20	6C130001		2,1,M	DECREMENT LOUP COUNTER
43	4 003A6	934	20	64300384		MUL33A	
835	S 003A8	936	20	20 50120002	LUX	2.2.M	RESET LOOP COUNTER AND POINTERS
830	6 003AA	938	20	6C22000C		4.12,M	
83	7 003AC	076	20	6C2B000C		5.12.M	
93	8 003AE	945	20	2719000A		3,MULKT	CHECK FOR END OF MATRIX
839		776	20	64300384		MUL33C	
940		946	20	60AE		MUL33A	
GENERATED				0100			
	1 00384	846	20	SF100002	10		RESTORE REGS.
48	2 00386	950	20	SF180004			
46	3 00386	955	20	SF200006			
48	4 00384	954	20	SF280008			
845	S 003BC	956	50	20 6C32000C	IMP	6.12.M	
94	6 003BE	958	20	7300			
200	1						

## CALLING ADMES LC PROGRAM  ***********************************	VERSION K20A0503		K NAME	DECK NAME=*SUBLIB*			
## 19 PROJECT HE SECURING SEQUENCE CONTRING SEQUENCE CONTRING SEQUENCE CONTRICT HE SECURING SEQUENCE CONTRICT HE SEQUENCE CONTRICT H	AGNOSTICS LINE	AURES L	JADRES L	С РКОСКАМ	•		SOUNCE
949 950 950 960 960 960 960 960 960 960 960 960 96					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	THIS PROGRAM	IUL A3X3 MATRIX BY A3X1 VECTOR
### 1719   March 1971   March 1972   March 1					****	JS MULD31	
849 650 650 650 650 650 650 650 650 650 650					****	PTK M1	
650 000 000 000 000 000 000 000 000 000					******		
6.51 6.51 6.52 6.53 6.54 6.54 6.55 6.55 6.55 6.55 6.55 6.55	GENERATED			0010			
655 0000C 188 24 MUL1SV 855 2 EVELU31 655 0000C 192 24 MUL1SV 855 2 EVELU31 655 0000C 192 24 MUL52 855 2 EVELU32 855 0000C 192 24 MUL52 855 2 EVELU32 855 0000C 192 24 MUL53 855 2 EVELU32 855 0000C 192 24 MUL53 855 2 EVELU32 855 0000C 192 24 MUL53 855 2 EVELU32 855 0000C 192 24 MUL54 855 2 EVELU32 856 0000C 192 24 MUL54 855 2 EVELU32 856 0000C 192 24 MUL54 855 2 EVELU32 856 0000C 192 24 EVELU32 851 0000C 192 24 EVELU32 851 0000C 192 24 EVELU32 851 0000C 192 24 EVELU32 852 2 EVELU32 852 0000C 192 24 EVELU32 851 0000C 193 24 EVELU32 851 0000C					EVE		
653 000HC 188 24 MULISV 655 2 16 17 16 17 16 17 17 18 18 24 MULISV 655 2 18 18 24 MULS 18 18 5 2 18 18 18 24 MULS 2 18 18 5 2 18 18 18 24 MULS 2 18 18 5 2 18 18 18 24 MULS 2 18 18 18 2 18 18 18 18 18 18 18 18 18 18 18 18 18	820				ENT		
Mag	851		N	0.	OSE		
855 0000C 188 24 MULSO 855 2 855 0000C 192 24 MULSO 855 2 855 0000C 194 24 MULSO 855 2 855 0000C 194 24 MULSO 855 2 855 0000C 194 24 MULSO 855 2 855 0000C 195 24 MULSO 851 0000C 195 24 MULSO 851 0000C 195 24 110000C 195 24 MULSO 851 0000C 195 24 110000C 195 24 110000C 195 24 110000C 195 24 110000C 195 25 110000C 195 24 110000C 195 25 1100000C 195 25 110000C 195 25 1100000C 195 25 20 20 20 20 20 20 20 20 20 20 20 20 20	852			,		,	
854 000BE 190 24 MULSS BSS 2 856 000CC 194 24 MULSS BSS 2 856 000CC 194 24 MULSS BSS 2 857 000C4 196 24 MULSS BSS 2 858 000C6 194 24 MULSS BSS 2 858 000C6 194 24 MULSS BSS 2 859 000C6 196 24 03000000 MULD31 PTM 0.6 861 003C2 964 20 1F100000 MULD31 PTM 0.6 862 000BC 168 24 1F100000 MULD31 PTM 0.6 864 003C6 964 20 1F100000 STX 2.MULSS 865 003C6 972 20 1F1800004 STX 2.MULSS 866 003C6 972 20 1560000 MULD31 PTM 0.6 865 003C6 976 20 151800004 STX 2.MULSS 866 003C6 972 20 1560000 MULD31 PTM 0.6 865 003C6 976 20 151800004 STX 2.MULSS 866 003C6 972 20 1560000 MULD31 PTM 2.2 867 003DC 978 20 35040004 LAR 2.2.1 871 003D4 960 20 0640 872 003D6 982 20 35040006 LAR 4.2.1 873 003D6 982 20 35040006 LAR 6.2.1 874 003D6 982 20 35040006 LAR 6.2.1 874 003D6 982 20 35040006 LAR 6.2.1 875 003DC 988 20 1281 MUL31U LDA 2.5 876 003E 994 20 640401CC JS MULFD 144.5 888 003E 994 20 6220004 JS MULFD 2.3 888 003E 994 20 6220004 JS MULFD 2.5 888 003E 994 20 622004 JS MULFD 2.5	853			1	>		
855 00000 192 24	954	_		1			
857 000Cc 194 24 MULSS 855 2 858 000Cc 194 24 MULSS 855 2 858 000Cc 194 24 MULSS 855 2 859 000Cc 194 24 MULSS 855 2 850 000Cc 196 24 MULSS 855 2 850 000Cc 196 20 03000000 MULU31 PTR 0.10.M 861 003C2 962 20 6C330000 MULU31 PTR 0.10.M 862 003C2 962 20 1670000 MULU31 PTR 0.10.M 863 003C6 966 20 1670000 STX 3.MULS3 864 003C6 966 20 1670000 STX 2.MULS4 865 003C6 972 20 1670000 STX 2.MULS4 865 003C6 972 20 1670000 CLAE 2.2.1 864 003C6 972 20 1670000 CLAE 2.2.1 865 003C6 972 20 167000 CLAE 2.2.1 867 003D2 972 20 3504000 CLAE 2.2.1 871 003D2 972 20 3504000 CLAE 2.2.1 872 003D2 972 20 3504000 CLAE 2.2.1 873 003D2 974 20 3504000 CLAE 2.2.1 874 003D2 974 20 3504000 CLAE 2.2.1 875 003D2 976 20 3504000 CLAE 2.2.1 876 003D2 978 20 3504000 CLAE 2.2.1 877 003D2 978 20 3504000 CLAE 2.2.1 878 003E0 999 20 640401CC JS MULFD 874 0.1 878 003E0 999 20 640401CC JS MULFD 874 0.1 879 003E1 999 20 640401CC JS MULFD 874 0.1 870 003E2 994 20 62000 GHO 170 0.1 871 003E2 994 20 62000 GHO 170 0.1 872 003E2 994 20 62000 GHO 170 0.1 873 003E2 994 20 62000 GHO 170 0.1 874 003E2 994 20 62000 GHO 170 0.1 875 003E2 994 20 62000 GHO 170 0.1 876 003E2 994 20 62000 GHO 170 0.1 878 003E2 994 20 6200 GHO 1	855			*			
857 000C+ 196 24 MULINS 85S 2 858 000C6 196 20 0300000 MULIN USE PREVIOUS 861 003C2 966 20 6330000 MULIN PTM 0:10:40 862 003C2 964 20 15100000 STX 2:MULS2 863 003C4 964 20 15100004 STX 2:MULS2 865 003C6 972 20 15100004 STX 4:MULS2 865 003C6 972 20 15100004 STX 5:MULS3 865 003C6 972 20 15100004 STX 5:MULS3 865 003C6 972 20 15100004 STX 2:MULS4 865 003C6 972 20 15100004 STX 2:MULS4 865 003C6 972 20 55100004 STX 2:MULS4 865 003C6 972 20 55100004 LAR 2:2:1 870 003D2 978 20 35040004 LAR 2:2:1 871 003D4 960 20 0600 872 003D6 982 20 35040004 LAR 4:2:1 873 003D6 982 20 35040005 LAR 5:2:1 874 003D6 982 20 35040005 LAR 5:2:1 875 003DC 978 20 35040005 LAR 5:2:1 876 003DC 978 20 35040005 LAR 5:2:1 877 003DC 978 20 35040005 LAR 5:2:1 878 003DC 978 20 550000 LAR 6:2:1 878 003DC 978 20 550000 LAR 6:2:1 878 003EC 994 20 5520005 LDB 2:3 879 003EC 994 20 5520005 LDB 12:5 888 003EC 994 20 6520005 LDB 12:5 888 003EC 994 20 5220005 LDB 12:5 888 003EC 994 20 6520005 LDB 12:5 888 003EC 994 20 6520005 LDB 2:3	856			*		2 (	
859 00005 196 24 MULD1 PTR 056 869 00005 196 20 0300000 MULD1 PTR 056 10.00 861 00352 962 20 05330004 MULD1 PTR 056 10.00 862 00352 962 20 05330004 MULD1 PTR 056 10.00 863 00354 964 20 1F100002 STX 2.MULS3 865 00356 965 20 1F280006 STX 2.MULS3 865 00356 965 20 1F280006 STX 2.MULS3 865 00356 972 20 5F100004 LUX 2.MULS1 865 00356 972 20 5F100004 LUX 2.MULS1 865 00356 972 20 5F100004 LUX 2.00L1 PTR 865 00356 972 20 5F100004 LUX 2.00L1 PTR 865 00356 972 20 5F100004 LUX 2.00L1 PTR 871 00302 972 20 35040002 LUX 4 4.2.1 RA 960 20 0509 UT00 LUX 3.00309 984 20 0509 UT00 LUX 3.00309 U	857	-		*		40	
## 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	858			*			
## 10 19 25 9 6 23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	458						
## 1003CC 952 CO CLASSON A CONTROL OF STA ASSOCIATION OF STA OCCUPANT OCCUPAN	098						
865 003C6 966 20   F100002 STX 2, MRULS3 865 003C6 966 20   F100004 STX 3, MRUS3 865 003C6 966 20   F100004 STX 2, MRULS3 865 003C6 966 20   F200006 STX 2, MRULS3 866 003C6 972 20   F200006 STX 2, MRULS3 873 003D9 982 20   S200006 STX 2, SMRULS3 873 003D9 984 20   S20006 STX 3   S	198				NIL.	0 70 00	
865 003C6 966 20 11180000 STX 3:MULSS 865 003C6 966 20 11180000 STX 4:MULSG 865 003C6 970 20 11280000 STX 5:MULSG 865 003C6 970 20 11280000 STX 5:MULSG 865 003C6 970 20 11280000 STX 5:MULSG 865 003C6 970 20 5100000 LME 2:2:1  865 003C6 970 20 11280000 LME 2:2:1  865 003C6 970 20 5500000 LME 2:2:1  870 003D2 978 20 5500000 LMA 5  871 003D2 978 20 3500000 LMA 6  872 003D6 982 20 3500000 LMA 3  873 003D6 982 20 3500000 LMA 3  874 003D6 988 20 350000 LMA 3  875 003D6 988 20 1261 MUL310 LMA 2:5  876 003D6 988 20 1261 MUL310 LMA 2:5  877 003D6 988 20 1261 MUL310 LMA 2:5  878 003E6 992 20 3961 STA 2:3  881 003E2 994 20 5220004 LMP 14:5  881 003E3 994 20 5220004 LMP 14:5  882 003E4 995 20 3961 STA 2:3  884 003E5 994 20 5220004 LMP 14:5  885 003E4 995 20 3961 STA 2:3  886 003E5 994 20 5220004 LMP 14:5  887 003E 994 20 5220004 LMP 14:5  888 003E 994 20 5220004 LMP 12:5  888 003E 995 20 1287 LMP 14:5  888 003E 994 20 5220004 LMP 2:5  888 003E 995 20 20 3961 STA 2:3  888 003E 996 20 5280004 LMP 2:5  888 003E 996 20 5280004 LMP 2:5  888 003E 996 20 5280004 LMP 2:5  888 003E 996 20 5280 LMP 20 5280	298				,,,,	SHOE	
865 003C6 956 20 1720000 57X 4-MULS4 866 003C6 976 20 1720000 57X 5-MULS5 865 003C6 972 20 3564000 6 LUX 2-MULS5 865 003C6 972 20 3564000 6 LUX 2-MULS1 866 003C6 972 20 3564000 6 LUX 2-MULITN 871 00302 978 20 3564000 6 LUX 4 4.2.1 872 00302 978 20 3564000 6 LUX 4 4.2.1 873 00304 982 20 3564000 6 LUX 3 3 874 00305 982 20 3564000 6 LUX 3 3 874 00305 988 20 1281 MUL310 LUX 2.2.M 875 00305 988 20 1281 MUL310 LUX 2.5.M 876 00305 988 20 3581 20 5286 LUB 14.5 878 003E 992 20 3591 20 5286 LUB 12.5 888 003E 994 20 522000 6 LUM 12.5 888 003E 994 20 522000 6 LUM 12.5 888 003E 998 20 46401C JS 996 1 LUM 14.5 888 003E 996 20 46401C JS 996 1 LUM 14.5 888 003E 996 20 46401C JS 996 1 LUM 14.5 888 003E 996 20 46401C JS 996 1 LUM 14.5 888 003E 996 20 622000 6 LUM 12.5 888 003E 996 20 7800 2 S286 LUM 2.5 888 003E 1001 20 3980 2 S286 LUM 2.5 888 003E 1001 20 3980 2 S286 LUM 2.5 888 003E 1004 20 528C LUM 2.5	863				XIX.		SAVE REGISTERS
865 003C6 976 20 1F20008 5TX 57MULSS 866 003C6 972 20 5F00008 5TX 57MULSS 867 003C6 972 20 5F00008 LUX 2.MULSS 867 003C6 972 20 5F00008 LUX 2.MULSS 869 003C6 974 20 35040002 LAE 2.2.1  871 00302 978 20 35040004 LAE 4.2.1  871 00302 982 20 35040004 LAE 6.2.1  872 00305 982 20 35040006 LAE 6.2.1  873 00305 984 20 5C120002 LAX 3.3  874 00305 984 20 5C120002 LDA 2.5  875 00305 984 20 1281 MUL31D LDA 2.5  876 00305 999 20 640401CC JS MULFD 879 0.3  887 003E 999 20 640401CC JS MULFD 879 0.3  888 003E 996 20 640401CC JS MULFD 884 0.3E 1001 20 9940 0.3  888 003E 996 20 640401CC JS MULFD 879 0.3  888 003E 1001 20 9940  0.3  888 003E 1001 20 3981  0.3  888 003E 1002 20 3980  0.3  888 003E 1001 20 3980  0.3  888 003E 1004 20 5280	100	-		19/10	VI.0		
#67 003C4 970 20 17.20000	600				210		
### 10 0 0 3 0 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	999						
869 00300 976 20 0648 LA 4 4.2.1  871 00304 976 20 35040004 LAE 4.2.1  871 00304 960 20 0640 LAE 4.2.1  872 00305 978 20 35040006 LAE 3.2.4  873 00309 984 20 35040006 LAA 3  874 00300 988 20 35040006 LDA 2.5  874 00300 989 20 5C120002 LDA 2.5  875 0030E 992 20 540401C JA 2.5  876 0030E 992 20 3991 STA 2.3  877 003E 993 20 3991 STA 2.3  887 003E 994 20 1287 LDB 14.5  888 003E 996 20 6C220004 JA 964 MLFD 12.5  888 003E 996 20 6C220004 JA 964 MLFD 12.5  888 003E 996 20 3991 STA 2.3  888 003E 996 20 6C220004 JA 964 MLFD 12.5  888 003E 996 20 6C320004 JA 965 10.3  888 003E 1001 20 3980 STA 2.3  888 003E 1004 20 3981 STA 2.3  888 003E 1004 20 3980 LDB 2.3  888 003E 1004 20 528C LDB 25.5	100					2	X5=PTH TO MATHIX=I
# 10 00302 978 20 35040004 LAE 4.2.1   # 10 00302 978 20 35040004 LAE 4.2.1   # 11 00304 960 20 00.0700 LAE 6.2.1   # 12 00305 984 20 05040006 LAE 3.2.5   # 12 00305 986 20 50120002 LDX 2.5   # 12 00305 989 20 50120002 LDX 2.5   # 12 00305 989 20 5012002 LDB 2.5   # 12 00305 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 00305 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 13 00305 999 20 6220004 JMP 4.4.5   # 14 0035 20 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6220004 JMP 4.4.5   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20 6404010C JS PHOLED PROPERTY STA 2.3   # 12 0035 999 20	248						
#70 00302 978 20 35040004 LAE 4.2.1 #71 00304 980 20 0640 #72 00305 982 20 35040006 LAA 3 #73 00305 984 20 0590 LAA 3 #74 00305 986 20 50120002 #74 00305 989 20 35040100 LDA 2.5.4 #75 00305 989 20 3504 1261 #76 00305 999 20 3961 #77 00305 992 20 3961 #78 00305 992 20 3961 #78 00305 992 20 3961 #79 00305 992 20 3961 #79 00305 992 20 3961 #79 00305 992 20 3961 #79 00305 992 20 3961 #79 00305 992 20 3961 #79 00305 993 20 444444 #79 00305 995 20 46440100 #79 0							
#71 00304 960 20 0640 #72 00306 982 20 35040006 LAE 6+2+1 #73 00309 984 20 0598 #74 00308 986 20 0509 #75 0030C 988 20 1281 LDA 2+5 #75 0030C 989 20 1281 MUL310 LDA 2+5 #75 0030C 989 20 1281 MUL310 LDA 2+5 #76 0030E 992 20 3981 STA 2+3 #78 003E 992 20 3981 STA 2+3 #78 003E 994 20 1287 LDA 14+5 #78 003E 995 20 3981 STA 2+3 #78 003E 995 20 528004 LDB 12+5 #78 003E 995 20 528004 LDB 2+5 #78 003E 995 20 52800 LDB 2+5 #78 003E 995 20 52800 LDB 25+5 #78 003E 995 20 5280 LDB 25+5				50 35040004	LAE		X4=PTR TO INPUT VECTOR=J
872 00306 982 20 35040006 LAE 6,2,1 873 00309 984 20 0598 LAA 3 874 00300 982 20 35040006 LAA 3 875 00300 988 20 5C120002 LDA 2,5 876 0030C 989 20 1261 MUL31D LDA 2,5 877 0030E 990 20 640401CC JS MULFD 878 003E 992 20 3991 ST 0,3 879 003E 994 20 1287 LDA 14,5 881 003E 994 20 1287 LDA 14,5 881 003E 996 20 6C220004 JMP 4,4,4,4 882 003E 996 20 6C220004 JMP 4,4,4,4 883 003E 996 20 6C220004 JMP 4,4,4,4 884 003E 1001 20 3981 ST 0 0,3 886 003E 1001 20 3981 ST 0 0,3 888 003EC 1004 20 528C LDB 2,3 888 003EC 1004 20 528C LDB 2,3 888 003EC 1004 20 528C LDB 26,5	871			06A0			
#72 00306 982 20 35040006 LAE 6,21  #73 00309 984 20 0698 LXA 3  #74 00300 986 20 5C120002  #75 00300 988 20 12601 LDA 2,55  #77 00300 989 20 1261 LDB 0,55  #77 00300 992 20 3961 STA 2,3  #78 003E1 993 20 7980 STA 2,3  #78 003E1 993 20 1287 LDB 12,5  #78 003E1 993 20 1287 LDB 12,5  #78 003E 995 20 5286 LDB 12,5  #78 003E 1993 20 1287 LDB 12,5  #78 003E 995 20 2586 LDB 12,5  #78 003E 103E 399 20 1287 LDB 12,5  #78 003E 100 20 3960  #78 003E 20 3660  #78	NERATED			0010			
## 673 00309 984 20 0698 LXA 3  ## 6030C 988 20 12800 LDX 2.5.M  ## 6030C 988 20 1280 LDB 2.5.  ## 6030C 988 20 1280 LDB 2.5.  ## 6030E 992 20 5280 LDB 0.5.  ## 78 003E 992 20 3981 STA 2.3  ## 80 03E 992 20 1281 LDB 0.5.  ## 80 03E 992 20 1281 LDB 0.5.  ## 80 03E 992 20 1281 LDB 0.5.  ## 60 03E 992 20 1281 LDB 0.5.  ## 60 03E 992 20 1281 LDB 12.5.  ## 60 03E 992 20 1281 LDB 12.5.  ## 60 03E 992 20 1280 LDB 12.5.  ## 60 03E 993 20 4.4.  ## 60 03E 993 20 6.3  ## 60 03					LAE		X3=PTR TO OUTPUT VECTOR=K
974 003DA 986 20 SC120002 LDX 2.2,M 875 003DC 988 20 1281 MUL310 LDA 2.5 876 003DC 989 20 640401CC JD5 MULFD 877 003DE 992 20 3981 STA 2.3 879 003E1 993 20 7980 LDA 14.5 880 003E2 994 20 1287 LDA 14.5 881 003E2 994 20 640401CC JD5 MULFD 882 003E4 996 20 640401CC JD5 MULFD 884 003E4 1001 20 9960 STA 2.3 885 003E4 996 20 640401CC JD5 MULFD 886 003E4 1001 20 9960 STA 2.3 886 003E4 1001 20 9960 STA 2.3 886 003E7 1001 20 2980 STA 2.3 886 003E7 1001 20 20 226C LDA 26.5 888 003EC 1004 20 528C LDA 26.5				8690			
## 003DA 986 20 5C120002 LDX 2:2:M ## 003DC 989 20 1281 LDA 0:5 ## 003DC 989 20 1280 LDA 0:5 ## 003EC 990 20 640401CC 578 MULFD ## 003EC 992 20 3991							
# 12 0030C 988 20 1281 MULS1D LDA 2.5  # 15 0030C 988 20 1281 MULS1D LDA 2.5  # 17 0032E 992 20 3991  # 18 003E 993 20	874						X2=ELEMENT COUNT
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878         003E         992         20         3941         57A         2*3           879         003E1         994         20         7980         57A         0+3           680         003E2         994         20         1287         LUB         14+5           681         003E3         995         20         5286         LUB         12*5           682         003E4         996         20         640401CC         JS         MULFD           684         003E4         996         20         640401CC         JS         MULFD           684         003E4         1001         20         9960         3980         0+3           885         003E7         1001         20         3981         5TA         2*3           886         003E7         1001         20         3981         5TA         2*3           886         003E7         1002         20         996         0+3         996           886         003E7         1001         20         24+5         996         24+5	118				35		
879 003E1 993 20 7980 574 00.3 8879 003E2 994 20 1287 1045 881 003E3 995 20 5280 108 12.5 882 003E4 996 20 6C220004 1MP 444.M 883 003E6 996 20 6C220004 1MP 444.M 883 003E6 996 20 674041CC JS MULED 885 003E7 1001 20 9960 3961 57A 2+3 886 003E7 1001 20 7980 1280 LDA 26.5 888 003EC 1004 20 528C LDB 26.5	878				ST,		
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882 003E4 996 20 6C220004 IMP 4.44,M 883 003E6 996 20 640401CC JS MULFD 884 003E9 1000 20 9930 AFD 0.3 885 003E9 1001 20 3981 STA 2.3 886 003E9 1002 20 7980 LDA 26.5 887 003E6 1003 20 1280 LDB 26.5 888 003EC 1004 20 528C	881				106		
883 003E6 998 20 640401CC JS 884 003E8 1000 20 9980 AFD 885 003E9 1001 20 3981 STA 886 003E9 1002 20 7980 STA 886 003E 1003 20 1280 LDA 888 003EC 1004 20 528C	889				IMI		1×+=1×t++
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886 003EA 1002 20 7980 ST9 887 003EB 1003 20 1280 LUA 888 003EC 1004 20 528C LÜB	888				STA		
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	DIAGNOSTICS LINE						GENERATED										GENERATED					

STATISTICS

TOTAL SHORTS 436
TOTAL LONGS 224
TOTAL LONGS 224
FERCENT SHORT 166.1
GENERATED NOPS 49
THEORETICAL PERCENT NOP LOADING 13.7
ACTUAL PERCENT NOP LOADING 5.3

\*\*\*\*ERROR MESSAGES\*\*\*\*

DECK NAMER\*SUBLING

LINE MINSER

DIAGNOSTIC DIAGNOSTIC

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r	AMIAGLE NAME	AKG	ATMSV	ATNYT	a Two	4TN]	ATNZ	ATN31	41N3	PINE	ATIVE	400	410	41SC	NITA	4.35C	1550	ASTN	475C	ATTN	44SC	NTEA	5170]	2110	510	#1152	0	COMPTH	(1503)	C 2 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3	031523	DECATIV	DECSU	DECS2	UECS3	DECS4	DE INI	DE ONE	USURTN	USASV	DVDOUT	DVFD	L X I MOX	EXPATA	LXPSV
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DECK NAME=\*INIT \*

VERSION K2040503

SUURCE	SUMMATION OF DELTA VIS IN I.J. K SPACE IN MISECICC				TIME OF LAST PRINTOUT	INIT AND ALIGN DECKS COMMON DATA		G*UT*COS (LAT)	G*UT*SIN(LAT)	PHASE ANGLE LAG OF FILTER IN PI RAD	SUM OF DVX.DVY.DVZ ERRORS IN MISEC			NUMBER OF CLUCK CYCLES COUNTING FROM	A NEGATIVE NUMBER	SELECT ALIGN MODE INDEA	MODE C SULUTION INDEX	NUMBER OF COMPOSER CICLES INTO MODE			CHIMMAT FOM CONTRA	SUMMATION (EDVX)						LUCAL GRAVITY*8.0	GL*0ELT							MATRIX. VECTON. AND MISCELLANEOUS DATA		SIN (OMEGA T)	COS(OMEGA T)	SIN GEODETIC CATTLOES	ALTITUDE	
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355 355 655	MATION	HSS	388	455	988	COMMON	858	828	HSS	888	BSS	ENO	EOD	HSS	330	922	2001	222	655	200	200	222	200	RSS	250	888	Ego	888	988	BSS	EUU	EUU	828	EOO	200	COMMON		988	955	000	822	
×>N:		SOVI	SDVJ	SDVK	TLPU	IACOM	VAXI	AKIT	AKET	PHA	VAX	VAY	VAZ	MCCD		SAMI	14051	0000	4 >	94	,,,	141	777	747	701	762	YA	VTB	VIC	VC1X	VCZX	VC3X	VFIX	VFZX	VF 3X	 MATCOM		SwT	CWT	2000	ALT	1
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DIAGNOSTICS L																																										

GIMBAL RESULVER POSITION (BIAS EXCLUDED)

SOUNCE					SUM OF 1-(G KNOWN)/(G ACCELERATION)				COSINES OF CORRECTED GIMBAL ANGLES						30 70 m	CORRECTED GIMBAL ANGLES							GAIN COLUMN INDEX	GAIN COLUMN INDEX	GAIN COLUMN INDEX	TEMP 3X3 MATRIX	TOTAL GIMBAL AND IMEN ISPZ		MATRIX ( STOKED ROW MAJOR URDER )	HEADING	- Alica	KOLL					XIGIAM MOTTAMOOGOMANT TOTO OF THE	VEHICLE TO CASE TRANSPORMATION MAININ		SAVE AJ MATRIX	TEMP 3X3 MATKIX		TABLE OF SUBROUTINE CALLS						LAST GIMBAL I COMMAND	LAST GIMBAL 4 COMMAND	SIN(LAT) GEOUETIC	
	1	1	1	4	4		7		COMMECI	4	1	7		1	The state of the state of	ORKECIED		4	t	t	4		2	2	2	36	34		AIX C STO	E11 = PSI = HEADING	HE A	# P.11 = RULL			12	12	12	36	36	36	36	36	34	IMI	TMI+12	0	TwI	01	SKA	SHA+4	Cent	
	988	655	556	352	SSI	200	622		USINES OF	888	888	200	200	922		SINES OF C		255	455	455	888		888	HSS	888	888	455		STATE MATE	E11	£12	£13			455	988	988	888	HSS	858	888	HSS	455	FOU	Foor	E 00	500	EGO	600	EGO	1000	
	RES1	RESS	KES3	45.54	VOS		140	•	) *	CI	63	25	53	40	•		•	51	25	5.3	54	*	KSNI	KSNZ	KSN3	0.1	90	•	\$	***	***	00000	,	•	E1	£2	E3	00	0	54	Σ	141	VFCT	0 0	TA	13x3	KAKA	L3X3	LCAI	LCA4		
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AUNES DADRES LC	50	24		25	35	30	11			1	200	200	24	58				29	99	70	14		78	30	25	**	120								156	168	180	192	22.8	25.4	300	300	377	336	37.1	000	336	1 T	36	04		
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DIAGNUSTICS LIME																																																				

GEANS WORLD CUMMON CONSTANTS DATA AREA

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DECK NAME = # INIT 4

VERSION K20A0503

SOUNCE						GETATOO TARMADI IA SMITH (CACA ST. WAY CO. A.	10/15 MINUIE (2/3) FINE ALIGNMENI POINTER											CASSAGE PARAMETERS OF THE CASSAGE CO. T. T. C. C.	EARIH ROIAIION RAIE NAUVOEO	GEODETIC LATITUDE CONSTANT	DELTA TIME = 178 SECOND	DOLL F DRECISION 1/32	= 1/3/		. C001-C064		SCALE FACTOR	Y ACCEL SCALE PACION MYSEC/PULSE	ACCEL SCALE FACIOR	BIAS		SAL	HIS ACCEL MISALIGNMENT	ACCEL	ACCEL	ACCEL	ACCEL	ACCEL	B32 ACCEL MISALIGIMENT	TANADI TANI MENTING	GYRO TOROUF & INDEPENDINE - CM	GYRO TORQUE .G INDEPENDONE - CM	GYRO TORUNE . G INDEPENDANE - CM	611 GYRO TORUUE.6 DEPEN.DYNE-CM/SEC**2		613 GYRU TORUUE.G DEPEN.DYNE-CM/SEC**2
o	10-	2	20	2 0	2	2	OM.	~ ~	00	0 0	, ~	2	2	2	2	ZERO		,	4	1	<b>,</b>	,	1 1		V DATA		t	t	1	, ,	1	t	1	1	4	4	<b>t</b>	1	1		<b>t</b> t	. 1	. 1	1	t	1
COMMON	DEC	955	455	655	955	455	200	355	655	000	155	455	988	HSS	988	FUU	FVED	122	922	355	000	200	000	200	CALIBHATION DATA.	EVEN	988	HSS	253	250	200	355	SSE	HSS	250	155	SSH	HSS	922	1 N L N	322	000	000	355	455	888
CONCON	197	DCSK	NFOOR	NONE	OVE	1 WO	F 451	THREE	F JUK	SIX	FIGHT	LINE	TEN	ZERU	FONE	DEONE		ONHLF	UMGA	UMEG	Keul Sei I	UEL 1	03032	90000	* CAL		C001	CDOS	5003	5005	5000	C002	CUOB	6000	0100	C011	5100	COLS	4100	31.00	5015	5017	T T T T	C014	CDZU	C021
DACCAAB	FFFFFCO																																													
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INE 223	224	550	227	220	230	231	234	233	234	235	230	257	239	240	24]	242	543	717	542	540	147	240	547	052		152	252	653	457	552	25.7	27	253	260	251	262	263	407	565	500	2557	2007	270	271	272	273
DIAGNOSTICS LINE		α																																												

UECK NAME=\*INIT \*

VERSION K2040503

SON INCOME.	CAACTON ACTOR OF DEAL OWNER TO	SET OF TORONG TO BE DEPONDED ON THE CANADA CO.			GAS GARD TORUNE G DEDEN DANK -CM/SEC + CA	GAR GYNO TOROUF & DEPENDANT-CMASEC+*>		GYRU TORUNE			COMP. G. INDEPENDENT	COMP. INDEPEN DAME		NEGET STATES	COMP. G. INDEPEN	COMP. G. INDEPEN	OND S INDEPEN			SPEED COMP.6 INDEPEN DYNE-CM/M/SEC**2	SPEED COMP.G INDEPEN DYNE-CM/M/SEC**2	2			IGNMENT	S PI	RESOLVER BIAS PI	3 RESOLVER BIAS	GIMBAL 4 RESULVER BIAS PI HADIANS	PLATFORM AZIMUTH ALIGN IN PI RADIANS	PLATFORM ELEVATION ALIGN IN PI RADIANS	VENTICAL DAMPING CONSTANT.	*	ITY GAIN	LOADED HEADING PI HADIANS	LUADED LATITUDE IN PI MADIANS = CDSS		LUADED LUNGITUDE IN PI RADIANS = CUSA	FIGO - CAACTON OF STIMAGE INCOME	LUCAL GRAVIII IN MEIERS/SECTTE = CUS/	1/SCALE FACTOR PILI SESZMISEC	REVOI		BARO ALT SCALE FACTOR METERS/BIT	HAND ALTITUDE HIAS	890				ADDRESS LOCATION	AUDRESS LOCATION FOR	PETURN ADDRESS LOCATION FOR RSET	HOLDESS LOCALION FOR
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	201	255	100	355	551	355	FSS	455	155	KSS	25.5	100	200	555	501	200	H SS	BSS	EVEN	888	HSS	HSS	858	828	888	988	888	889	888	455	455	828		928	455	822	200	623	200	600	252	250	455	455	888	I S	355	EVEN	USE	888	988	155	200
MAGGGA	6000	5200	6305	5000	0000	5057	CD2H	6205	C030	1500	CD32	5000	2000	5003	6000	C037	CD3R	C039		0500	CD41	CD42	C043	CD44	C045	9400	C047	C049	67GO	0500	C051	C052	•	C053	6024	COFF	5500	COLF	6020	C057	C058	CD29	0900	C061	COAS	5000	C064			Іви	MOI	2011	
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DADRES	144	77	152	120	160	164	164	172	176	180	124	111	165	199	200	407	208	212		516	220	554	220	232	236	240	544	248	252	555	560	564		268	212	276	000	010	250	720	282	262	595	300	304	308	312			0	2	3 L	,
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DECK NAME=\*INIT \*

VERSION K20A0503

SOURCE TEMP - FIRST HALF GIMBAL ANGLE TEMP - LAST HALF GIMBAL ANGLE		HEAD I NG		45 DEGREES IN FI RADIANS 45 DEGREE LAJITUDE REFERENCE, PI RADIANS DOUBLE PRECISION 8.0	JS IA JS IIA GAIN MATRIX KS(I.J) (STOREU IN ROW MAJUR ORDER) UEC64 1.0
HSS 36 HSS 36 HESIUUAL ATTITUDE ANGLES	1 1 1 1 Z	4 <b>.</b>	-7200 -14500 -1550 -1200		JS IA JS IIA MATRIX KS(I•J) (STC
HSS HSS	4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	HSS USE		DEC64 DEC64	JS JS JSIN MAT
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PHOGHAM			FFFFESE N7200 FFFFESE N4600 FFFFFS7 N1680 FFFFESS N1200 0000000 R4X	3FC00000 0EG45 FC24FF12 DEG49 3FC5H05A 00000000 DF8 4240000	2 64040000 JALN 2 64040000 JALN 2 64040000 4
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DADRE S	01000	104	0~+6×2	13 2	55 24 25
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DIAGNOSTICS LINE ADRES DADRES LC 327 00009 8 1 328 00020 44 1	329 330 531 532	334 334 345	336 336 346 346 341 341	34 K 34 K 3 K 4 K 4 K 4 K 4 K 4 K 4 K 4	345 346 346 347
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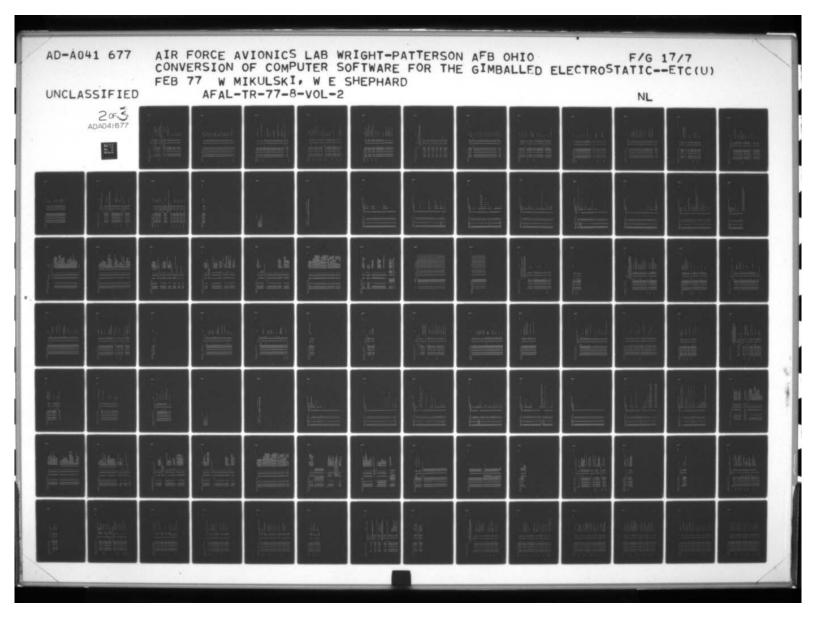
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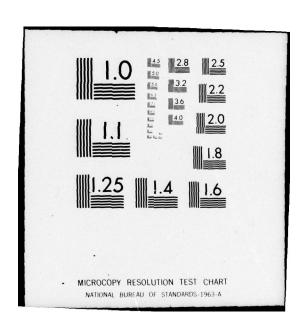
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SOURCE

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init .	PHUGHAM		4EZF 37FA	4344757C	20940380	42C10127	6 85675579	424DUEC0	79420830	41068711	2 58601366	41737CFE	2 37E6F 71A	41443440	2 95430718	< 00000000 x53	00000000	C41001A0	40EAI4CE	2 EB1C432C	457F65E2	2 IATSCOUA	45410E69	2 4F616723	44449430	Z BAEUBOBC	437263BC	2 61043060	42054605	2 Ellybaeu	-	2 3U2F 7254	41687428	2 DCSOCE4E	4   2 3467
DECK NAME = * INIT	AURES DADRES LC	1	74 6		82 2		949		06		3 76		36		102	106		110		114		118		122		126		130		134		138		146	
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VERSION KEURUSUS	DIAGNOSTICS LINE	466	360		361		362		363		364		365		356	367		368		304		370		371		372		373		374		515		376	





ULICA NAME =	PAGE			. 74		ES)	, RES3, RES4 ARE	. 74	. 74	K=2,3,4										
DECK NAME=PINIT		SOURCE		AEMUVED 26 AUG. REMOVED 26 AUG.	CO46+RES1-45 DEGREES	S1=SIN(CO46+RES1-45 DEGREES)	MES CD47, CD48, CD49 AND RES2 OF CORE.	REMOVED 26 AUG.	KEMUVED 26 AUG.		C(K)=CUS(CD4(I)+RES(J))		FG(3,2)=0	S1=-S1	TEਅ=−51	F6(2,2)=C1	-S1*C1	F6(1,3)=-S1*C1		FG(3.3)=C2
DECK NAME=PINIT		FENT 13	INAV) HOUTINE	184 2540 C046+2 RF31+2	RESI+2 DEG45 SINCOS	\$1 C1+2 C1	AING COUE ASSU	5.10.M CD47.5	XESC.5 ZERO KES2.5 SINCOS	*+4	C2-2.5 5.4.3	181A 5.F6,M	20.5	ZEN0 21+2	TEM C1+2	ZEH0 18•5	16.5 TEM	26.5	C2+2 ZER0	3, 5
00095			ATTITUDE	81000				* * * *	*	טאט אדי	STA STB IAN		A A A	LDB	STA	LDB	STB	STA STB	LDB	
10000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		ткоскам		00000000 2400001C	14000016 FC000000C 64040000 6004	00000003E 3C000003E 7C000002E		SCZAUOOA	16800018 5400001C	0009		643000A6 5C2A0008	3484	5400001C				3AHD 7AHC		
10000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	K NAME = #	AURES LC											189	160				205		100000000000000000000000000000000000000
MERSION KZOAUSO3  DIAGNOSTICS LINE 378 378 378 378 378 389 389 389 389 389 389 389 389 389 38		LINE ADRES 0 378 379 380			363 00096 364 00096 385 00094 386 0009C					. 000AC										

Sounce	6.5		51.3	MLF (1+2 C1*02			CUB ZERU FG(1.2)=51	12.5	MLF 52+2 S1*52	30.5						LDA 53*2 CIA 30:5 16(2,3)=53		2++5	STA 10.5 LG(3.1)=53*54		CDA 2ERO LG(1.3)=0	24.5	C3+2		51A 6+5	C3+2		STA 34.5 LG(3.3)=C3	32.5	MLF C4+2 C4+C3		ZERO	53+2	STA 22.5			ZEHO	STA 2.5 LG(1.1)=C4				12.5	STB 12.5 US MULS33 TM([1,J)=V1([1,J)*FG([1,J)
DECK NAME=#INIT *	2 2	215 2 7482	V	220 2 3641	· ~	2	224 2 5400001C	1 ~	056 7	2 3431	N	232 2 14000044	236 2 3465	~	2	240 2 14000048	243 2 745E	2 9400	2 3485	~	248 2 1400001C	2	2 F C 0 C	~	2 3A3	254 2 1400003x	1 ~	2 3491	~	N r	267 2 3457	12	2	274 2 34400030	1 ~	2 140(	278 2 5400001C	280 2 3AAI	255 2 1000000	u 1	10	2	286 2 64040000 IS3
VERSION REGAUSOS UECK MAME DIAGNOSTICS LINE ADRES DADMES	419	-		AU000 554			426 000E0		429 000E4			43C 000E8					439 00053				84000 544				-	10100 444		1000	6		455 00104			459 60110						456 00112		7	469 00110 469 0011c

## Shees Dadres LC Plant	## 100 PES LC PRODUZE DE PTR TW										
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537 0019C 412 2 6316 538 0019C 412 2 6316 539 00100 416 2 364904E 539 00100 416 2 364904E 539 00100 418 2 601E 540 00100 422 2 61049004E 1850 JRN 540 00100 422 2 6409004E 1850 JRN 540 00100 422 2 6409004E 1855 STA 540 00100 442 2 1448004E 1855 STA 550 00100 444 2 640000000 STA 550 00100 445 2 6400000000 STA 550 00100 445 2 640000000 STA 550 00100 445 2 6400000000 STA 550 00100 5 5 640000000 STA 550 00100 5 5 6400000000000 STA 550 00100 5 5 640000000000000000000000000000000		535		410	V	E4000018		Seu	NINE	
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537 0019E 414 2 14000018 534 00146 539 00140 416 2 3C4904E 539 00140 418 2 601E	ERATED					0010				
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\$39 00162 418 2 601E    9 0700    90 00164 420 2 1448004E 1850 LUA    940 00164 422 2 6114    940 00164 422 2 6114    9542 00164 422 2 6114    9542 00164 422 2 6114    9543 00164 422 2 6114    9543 00164 422 2 6114    9540 00165 430 2 30000000    9544 00164 430 2 30000000    9554 00164 430 2 40000000    9555 00165 440 2 64000000    9555 00165 440 2 64000000    9556 00165 440 2 6400000    9556 00165 440 2 6400000    9556 00165 440 2 6400000    9557 00166 440 2 6400000    9558 00166 440 2 6400000    9558 00166 440 2 6400000    9559 00166 440 2 1448004E 1856 17X    9550 00166 440 2 1448004E 1856 1		538		416	2	3C48004E		STA	KSNI.9	YES. KSN(I)=9
240 001144 420 2 14440044 1950 LUA 541 001144 420 2 14440044 1950 LUA 543 001144 420 2 14440044 1950 LUA 543 001144 420 2 14000010 SSTA 543 001144 420 2 3000004 1456 STA 544 001146 434 2 14490044 1456 STA 544 001146 434 2 14490044 1456 STA 544 001144 434 2 14490044 1456 STA 544 001144 434 2 14490044 1456 STA 544 001144 434 2 14490044 1456 STA 545 001144 444 2 14490044 1456 STA 545 001144 444 2 14490044 1456 STA 556 001144 445 2 14490044 1456 STA 556 001144 445 2 14490044 1456 STA 556 001144 456 2 14490044 1566 STA 556 001144 456 2 14490044 1456 STA 556 001144 456 STA 556 STA 566 001144 456 STA 566 STA 566 STA 566 STA		539		418	2	601E		טאט	1850	
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0700   01144   420   2   1448044   1850   1800								in the same		
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544 001AC 428 2 544000Ab 554 001AC 428 2 544000Ab 555 001AE 436 2 544000Ab 555 001BE 436 2 544000Ab 655 001BE 436 2 544000Ab 655 001BE 440 2 644000Ab 655 001BE 440 2 64000Ab 655 001BE 440 2 64000Ab 1856 01BE 440 2 64000Ab 1856 01BE 440 2 144800Ab 1856 01BE 440 2 144800Ab 1856 01BE 555 001CC 450 2 344000Ab 1856 01BE 555 001CC 450 2 344000Ab 1856 01BE 555 001CC 450 2 144800Ab 1856 01BE 555 001CC 450 2 148800Ab 1856 01BE 555		243		470		3C40C0AA		415	E 2.2.0	0=(1)=0
545 0014E 430 2 3C400085 546 0014E 431 2 3C400085 547 00154 434 2 1445004E 145E LDA 548 00154 435 2 3C40004 145E LDA 549 00184 440 2 2 4000004 145E LDA 550 00168 440 2 6008 551 00184 444 2 1448004E 145F 552 0016C 444 2 2 44000040 145F 553 0016C 444 2 2 64000004 145F 554 0016C 445 2 64000008 555 0016C 450 2 3C48004E 555 0016C 450 2 3C480004 557 0016C 450 2 3C480008 558 0016C 450 2 4400008 558 0016C 450 2 1448004E 559 0016C 450 2 1448004E 551 0016C 450 2 1448004E 551 0016C 450 2 1448004E 552 0016C 450 2 1480004E 553 0016C 450 2 1448004E 554 0016C 450 2 1448004E 555 0016C 450 2 1448004E 555 0016C 450 2 1448004E 556 0016C 450 2 1448004E 557 0016C 450 2 1448004E 558 0016C 450 2 1448004E 559 0016C 450 2 1448004E 550 0		244		428		3C4000A6		A I S	26.3	
\$46 00190		245		430		30400080		STA	E3+2+8	E3(1)=0
547 00192 434 2 1449004£ 145E LDA 439 00134 438 2 3440004£ 145E 4000034 439 00134 439 2 3440004£ 145E 4000034 439 2 3440004£ 145E 4000034 145C 1448004£ 145E 1448004£ 145E 1448004£ 145C 145C 145C 145C 145C 145C 145C 145C		546		432		30400094		STA	E3,8	
548 00134 436 2 A400000A ADU ADU ADU AULO AULO A400 2 5068 0045 517 A518 010184 444 2 1448004E 173F LUA 552 0010C 444 2 1448004E 173F LUA 553 0010C 444 2 1448004E 173F 1748004E 1755 0010C 450 2 340000050 1755 517 A518 0010C 450 2 340000050 1755 517 A518 0010C 450 2 340000050 1755 517 A518 0010C 450 2 1448004E 1756 1757 A518 0010C 450 2 1448004E 1756 1757 A518 0010C 450 2 1448004E 1758 1758 1758 1758 1758 1758 1758 1758		547	150	434		1445004E	IdSE	LDA	KSNI.3	
549 00186 433 2 30480042 578 550 00186 440 2 6008 551 00184 442 2 1448004E 195F LUA 552 0018C 444 2 6400000		244		434		44000004		ADU	ONF	KSN(1)=KSN(1)+1
550 00184 440 2 0008 0700 151 00184 440 2 1448004E 185F 185F 195F 185F 185F 185F 185F 185F 185F 185F 18		140		438		36440045		STA	KSNI . 9	
100   100		1000				1000		1161	1250	
551 00184 442 2 1448004E 195F LUA 552 0018C 444 2 2 3048004E 195F SNU 554 0018C 446 2 3048004E 554 0018C 450 2 3400005B 1856 STA 555 0018C 450 2 3400008B 1856 STA 555 0018C 452 2 4400008B LAE 557 0018C 452 2 4400004E 559 0018C 455 2 1448004E 550 0018C 455 2 1448004E 550 0018C 455 2 1448004E 550 0018C 455 2 2001	STATES.	220			4	0700			2000	
552 001854 444 2 E4000004 1357 550 00185 444 2 E4000004 1357 550 00185 446 2 E4000004 1357 554 00185 446 2 E4000004 1856 577 554 00186 450 2 34000050 1856 577 554 00186 450 2 34000050 1856 577 557 00186 450 2 2 4000 000 1000 000 1000 000 1000 10	ACHAICD.	1.55			0	14.4.000.4.6	1001	100	K C4.1.0	
552 0016C 444 2 54000004 550 550 554 554 554 554 554 55		100				3100011	1001	200	0.00	
553 0018E 446 2 3C48004E 5TA 554 001C0 440 2 1C48004E 1856 5TX 555 001C4 450 2 34000050 1856 5TX 555 001C4 452 2 4400008B ADU 557 001C4 454 2 0640 559 001C8 456 2 1448004E 5LX 559 001C8 458 2 0842 550 001C8 459 2 0648 551 001CC 460 2 1080006C LDA 552 001CE 455 2 2601		256				4000000		200	CINE	
554 001C0 454 2 1C40004b 1655 5TX 555 001C2 450 2 34000050 1655 5TX 555 001C4 450 2 34000050 1655 5TX 6000050 1655 600004 1655		553				3C48004E		STA	KSVI.5	KSN(I)=KSN(I)-I
555 001C2 450 2 34000050 LAE 556 001C4 452 2 440000A8 ADU 557 001C4 452 2 144000A8 LXA 559 001C4 456 2 1444004E LVA 559 001C4 458 2 0642 STL 550 001C4 459 2 06A8 LXA 551 001CC 460 2 1060006C LDA 552 001CE 452 2 201		224				1C4000AB	1856	STX	8.TEM	
556 001C4 452 2 44000008 ADU		555				34000050		LAE	14	
557 001C6 454 2 0640 558 001C8 456 2 1448004E LDA 559 001C8 458 2 0842 SLL 560 001C8 459 2 06A8 LXA 551 001CC 460 2 1060006C LDA 552 001CE 462 2 9201		556				A40000AB		DOA	TEM	
554 001C4 456 2 1444004E LUA 559 001C4 458 2 0842 551 550 001C4 459 2 08A8 LXA 551 001CC 460 2 1660006C LUA 552 001CE 452 2 201		557				0640		XA	4	
558 001C8 456 2 1448004E LJA 559 001C8 458 2 0842 5LL 560 001CB 459 2 005B LAA 551 001CC 460 2 158006C LDA 552 001CE 452 2 201	MERATEN					0700				
559 001CB 458 2 0842 550 001CB 459 2 0648 LXA 551 001CC 450 2 1560006C LDA 552 001CE 452 2 9201		200				14440044		40.1	S. INSX	
557 001CH 459 2 06AB LXA 551 001CC 450 2 1050006C LDA 552 001CE 452 2 9201		2000				1400041		200		
550 001CB 457 2 0048 LAN 551 001CC 460 2 1640006C LDA 562 001CE 462 2 9201 MLF		100		000		2400		356	<b>u</b> u	
551 031CC 450 2 1080005C LDA 552 001CE 452 2 9201 MLF		200				0040		LVA		
552 001CE 462 2 9201		551				100000001		LUA	KS3+6,5	
		266				1026		ML	4.7	KI (1) * KS (KS (K) + 1 + 3)
00.0	GENERATED					0010				
		250	543 00100	101	V	8040000		AUT	E3.5.8	E3(1)-E3(1)+R1(1)-R3(R3R(1)+1+3)

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			(KSN(I) -1 -3)	(2)		(1) • 1 • 2)		E2(1)=E2(1)+E3(1)+K1(1)*KS(KSN(1)+1+2)				4(1)+1+1)		E1(I)=E1(I)+E2(I)+HT(I)*KS(KSN(I)+1+1)				_															= HEADING					= PITCH				
	SOURCE		E3(1)=E3(1)+K1(1)+(KSN(1)+1+3)	KI (1) *KS (KSIN (1) +1 +2)		E3(1)+HT(1)*KS(KSN(1)+1+2)		E2(I)=E2(I)+E3(I)+		JT (T) 8KS (KSN(T)+1-1)	Tallinguign-(T)	E2(1)+RT(1)*KS(KSN(1)+1+1)		E1(1)=E1(1)+E2(1)+H				NO TAKE ABSCHT([])			1111101304-1111110	111111111111111111111111111111111111111						HF 402F (1.1)				21-44C OT 2 4472	023 04TA = F(1.1) = HEADING		(A) = E(1,2)		SCALE IT TO 2**-15	021 DATA = E(1.2)	(A) = F(1.3)			TON I VIVO CCO
		E3+2+8	E3,8	2.4		E3+2+8	E2.2.8	E2+2+8	E2.8	KS1+2+5	***	£2.2.8	£1+2+8	£1+2+8	E1.8	KI+2.8		ZEHO	ZERO	81.2.1	KIL.2.8	2 1 1 1	9.2.M	M.9.6	146	IBSA	-	2413	HE40+2		ZERO		02301	75.80	£2		-	021+1	2 × × 0	3	-	17000
		STA	STG	M M		ADF	ADF	STA	STB	L0A	2	ADF	ADF	STA	STB	LUA	2	LOA	LOB	SAF	A S	2 2 2	J. N.	ICN	760	096	LUA	CTA	578		108	X 40	CTATA	1010	407	CFX	SHAD	STBH	907	CFX	SHAD	1
																					1691						196															
* 11	PROGRAM	30400086	7C4000B4	15800044	0010	BC400036	BC4000AA	3C4000AA	7C400048	16800010	1020	0700 HC4000AA	BC40009E	3C40009E	JC400072	14400052	0200	1400001C	2400001C			200020	6C4A0002	244A0006	64300206	6430017A	36000001	3C00009E	7C00006A		5400001C	0000	1000	24000015	14000048	0000	0001	7C010045	24000010	0000	1000	1000000
I a =	CC	2	N	vì	J	~	2	~	v	N C	v	1	2	2	2	20	J	2	N	2	v	un	10	10	2	2	2	vo	10	,	~	N	v 1	0 0	1 ~	10	2	V	N C	1	2	C
DECK NAME = * INIT	DADRES	466	894	672	1	474	476	478	480	785	191	4	488	440	492	767	2	865	200	205	504	200	510	512	514	516	519	220	524		526	250	420	233	534	536	537	538	540	244	545	1.7
DE	ADRES (	00105	00104	90100	200	0010a	00100	0010E	00160	001E2	00154	00166	00168	001EA	COTEC	COLEE	0.100	001F2	001F4	00116	00118	001100	COLFE	00200	00505	00500	90500	80200	00200		0020E	00210	11700				61700	0021A	00210	00200	00221	0000
40503	LINE		595	266		568	569	270	571	572	5/3	574	575	915	211	578	-	580	281	285	583	100	386	587	288	585	290	160	593		294	595	500	מסג	294	900	601	209	603	600	909	* "
VERSION K2040503	DIAGNOSTICS				GENERATED							GENERATED					GENERATED	27.12.17.																								

	SOURCE	PTK ICA	SUBAGUTINE FENT (FIRST ENTRY)	THIS MOUTINE IS USED TO INITIALIZE ALIGNMENT AND DRIFT COMPUTATION UPON FIRST ENTRY AFTER SYSTEM KUN-UP. THIS ROUTINE CALLS ALIGN RESET (RSET) TO FULLY INITIALIZE ALIGN MOUE.	CLEAR MAIRIX A(I.J)	LDX 5,34,44		Jan 59.24-7	CLEAR VECTUR SDV1	LUX 5,10,M	STA SUVI'S		CLEAM VECTOR VAXI	рих 5-10-м	14N 5.2.4	J6U I01C	CLEAR VECTOR DVXI			IMN 5,2,4	010	CDX 5-10-W		JGU 101E	CLEAR SKII,SRIZ, KAIP, RAIM			STA SETS	
		FENT			CLE	101	IOIA			•	1016		. cre	,	1010			*	1010		* *	2101	1016						
DECK NAME = #INIT *	LC PRUGRAM	2 00000000 5		• • • •		2 SC2A0022	2 3E60000C	2 6430022C		2 SCZAUODA	2 3E8000CC	2 64300234		2 SCZAUUDA	2 66290000	2 6430023C			2 3E800000	2 66250006		2 5C2A000A	2 66280002	2			10		v
CK NAME	AUPES DAURES LC	550				550	550	556		562	564	564		510	572	576			200		200	586	240	265		594		269	
UE	AUPES	92200				60529		0022E		00232		00236			0023C				24200		01540		000745						いっしつ い
VERSION K20A0503	DIAGNOSTICS LINE	610 611				612	419	615		517	919	614		921	622	479			525	129	0.70	629	630	632		63	634	635	535

SOUNCE		0 - 1	CHACHO	PESET OCON TO -R							64(1.1)= 0019					GM(2.1) = -CU25			Carlo-11- Casa	Sm(3.1)= CD22			6m(1.2) = CD20				- CO	3H (2.5) =-CD58			GM (3.2) = CD23			21- 5031	Om (1:3) = CO21				GM (2.3) =-C027				GM(3+3) = COC4		VALUES ON DIAGONAL			
	RATM	HATM+2	CHAS	Deon	200		MAININ SHILLS	5.6M.M	Culto	5019	2.5	9.0	25.40	25.40	CUZS	6.5	4.5	C022+2	2005	5.01	505000	0202	14.5	12.5	2EH0	ZEHO	CUZO	19.5	Ch24.2	CUZ3	22.5	50.5	C021+2	5051	5.613	25.413	75.40	CD27	30.5	28.5	C024+2	CD24	32.5	25.5	MATRIX A(I.1)	2.4.5	5001.0	
	STA	STA	415	618	410	201 1011111	INITIALIZE	LOX	1.04	101	STA	STB	LDA	108	SFD	STA	570	LDA	100	4 1	90.0	100	STA	576	LDA	F.08	240	4 1 1	104	108	STA	STB	LUA	LUB	4 7	200	100	SFD	STA	STB	LDA	LUB	4 1	0	INITIALIZE	101	¥0.	
PROGRAM	30000005		30000015		3000000			SC2A0060 102		24000044	3461	7440	14000010	5400001C	00000000	3483	7456	1400001	24000040	3463	340000000	54000088	3467	7446	1+000001C	54000010	DC000040	2045	14000000	24000044	3488	7464	1400008E	24000090	2000	1000	-	UC0000A4	348F	748E	1400009A	2400004B	7491	*		*	300000	1
7			010		-			616 2	5 810	620					620	630 2	631 2	636 2	200	020	200	2000	2 250	643 2	5 446	2 949	0.0	2000	200	554	5 959	5 759	5 859	9 099	2 200	2000	200		670 2		672 2	674 2	2 212			470	010	
AUMES	0025E			10000				00268			0026E	00261	00270			00276	0.0277	61700		0000								40000							00000								44200			40000		
DIAGNOSTICS LINE		040	140	240	2+0			559	545	940	149	270	649	650	651	555	653	959	559	956	100	659	099	199	299	663	199	599	799	999	699	019	119	573	676	27.5	976	119	978	619	989	189	280			707	100	

SOURCE	A(3,3) = CD03 AB([,J)=TM([,J)*A(1,J)	INITIALIZE LAT TO LATL	SGDL=SIN(LAI) CGDL=CUS(LAI)	AK1T=CGUL*GL AKZT=SGUL*GL PHA=0 I=1.3
			<b>37 3</b>	
3.5 C002+2 C002	34.5 34.5 34.5 34.5 34.5 34.5 34.5	CD07 A AB LATT+2 LATT-2 LATT-2	SINCOS *** \$60L \$60L \$60L \$60L	LDX
STB LDA	STA LOBA STA STA STA	S TTT JOE	STATE STATE	LEAR VCC
	* *	103		104A C C C C C C C C C C C C C C C C C C C
PROCKAM 7A80 14000042 540000046	14600046 54000044 3441 7490 74040000	00000050 000000050 000000000 14000116 54000114 3C00000A	64040000 6004 0700 00000008 3C00000E	5C22011C 640400000 7C00000000 7C0000000 7C0000000 7C0000000 7C000010 7C00000000000000000000000000000000000
# 0,727	inninn no	v v v v v v v v	00 000	nununununun nununununun
DECK NAME=#INIT S DADRES LC PRI 6 685 2 140 6 686 2 140 6 686 2 540	1750 1750 1750 1750 1750 1750 1750 1750	705 706 706 706 716 716	716 718 720 722 724	227 227 227 237 247 247 247 247 247 247 247 247 247 24
DE AURES 002AU 002AE	000283 000283 000284 000284	00000000000000000000000000000000000000	002CC 002CC 002CC 002CC	0002D0 0002D0 0002D0 0002D0 0002E0 0002E0 0002E0 0002E0 0002E0 0002E0 0002E0
0503 0503 088 089	22222	7000	705 707 708 709 7109	1117 1118 1118 1118 1118 1118 1118 1118
VERSION REDADSO3 DIAGNOSTICS LINE PRE PRE PRE PRE PRE PRE PRE PRE PRE PR		GENERATED	GENERATED	

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0.0304 777 2 34 3489 574 1845 0.0305 777 2 4000056 109 0.0317 778 2 5000056 109 0.0318 778 2 5000056 109 0.0319 778 2 5000056 109 0.0310 748 2 5000056 109 0.0311 748 2 5000056 109 0.0311 748 2 5000056 109 0.0311 748 2 5000056 109 0.0312 748 2 5000056 109 0.0313 748 2 5000056 109 0.0314 748 2 5000056 109 0.0315 748 2 6000056 109 0.0316 748 2 6000056 109 0.0317 748 2 5000056 109 0.0318 748 2 5000056 109 0.0318 748 2 6000056 109 0.0318 748 109 0.0318 748 2 6000056 109 0.0318 748 109 0.0318 748 2 6000056 109 0.0318 748 109 0.0318 748 2 6000056 109 0.0318 748 109 0.0318 748 109 0.0318 748 109 0.0318 748 109 0.0318 748 109 0.0318 1	AGNOSTICS	LINE	AUKES		27	PROGRAM				SOURCE	
735 01314		134		171		3489		STA	18.5		
136 00306   774   2 10000056   100   1708-2   1708-2   1709-2		735		112		3491		1	2112		
138   0.130	NEWATED	736	905.00	774	~	1400005A		LUA	TIME+2		
738 01330 778 2 10000026 574 10*2 10*2 10*2 10*2 10*2 10*2 10*2 10*2		137	00303	775	2	5400005B		108	TIME		
749 0030C 740 2 70000USC 510 10.0 10.0 10.0 10.0 10.0 10.0 10.0		738	0030A	178	2	3C00005E		STA	T0+2	377.1-71	
740 00310		739		780	2	70000050		SIG	10.	I U = I I ME	
742 00312 744 C 14000111		140	_	787	N	56220012		LUX	4.0rs.m		
745 00312 766 5 5400000 556 774 784 6 5 6400000 744 00316 790 2 5000000 556 775 775 00316 790 2 5000000 556 775 775 00316 790 2 5000000 556 775 775 00316 790 2 5000000 556 775 775 00316 790 2 50000000 556 775 775 00316 790 2 50000000 556 775 775 00316 790 2 50000000 556 775 775 00316 775 775 00316 775 775 00316 775 775 00316 775 775 00316 775 775 00316 775 775 00316 775 775 00316 775 775 00316 775 775 00316 775 0		141		184	~	1400011E			2.70		
743 00314 768 2 5000000 574 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 175+2 170+2 175+2 17		745		180	v	5400011C		50.3	MILL FL		
745 00314 794 2 50200000 514 4.0E.T.M 745 00314 794 2 50220030 EDX 4.0E.T.M 749 00315 794 2 50220030 EDX 4.0E.T.M 749 00316 794 2 50220030 EDX 4.0E.T.M 749 00326 800 2 50400010 EDX 4.0E.T.M 750 00326 800 2 50400000 514 VIC. 751 00326 800 2 50400000 514 VIC. 752 00326 800 2 50400000 514 VIC. 753 00326 800 2 50400000 514 VIC. 754 00326 800 2 50400000 514 VIC. 755 00326 800 2 50400000 514 VIC. 755 00326 800 2 50400000 514 VIC. 752 00326 800 2 50400000 514 VIC. 753 00336 800 2 54000100 FDT FEM 752 00336 820 2 64040000 514 VIC. 753 00336 820 2 64040000 514 VIC. 754 00338 820 2 64040000 514 VIC. 755 00346 830 2 54000100 FDT FEM 755 00346 840 2 54000100 FDT FEM 772 00346 840 2 54000100 FDT FEM 773 00356 850 2 500000040 514 VIC. 774 00352 850 2 500000040 514 VIC. 775 00354 850 2 500000040 514 VIC. 775 00354 850 2 500000040 514 VIC. 775 00354 850 2 500000040 514 VIC. 775 00355 850 2 500000040 514 VIC. 775 00356 850 2 500000040 514 VIC. 776 00355 850 2 500000040 514 VIC. 776 00356 850 2 500000040 514 VIC. 777 00356 850 2 500000040 514 VIC. 776 00356 850 2 500000040 514 VIC. 777 00356 850 2 500000040 514 VIC. 778 00356 850 2 500000040 514 VIC. 778 00356 850 2 5000		743		188	v	000000000		ST.	2.77.	VIH=6L*8.0	
745 01318 794 2 C7000054 104 61-2  749 01316 796 2 4-0000116 LDA 61-2  749 01316 796 2 4-0000116 LDA 61-2  750 01322 745 00032		144		267	v	3000000		1	1 1 1		
747 0.0314 774 5 702000		745		761	v	C000035		10x	4.DELT.M		
747 00352 400 2 54000112		0 1		101	10	200000		AG -	61 +2		
749 0034C		147			v	14000116		2 2			
750 00324		247				2100000		202	MIII FD		
750 0.0342		149				000000000		O T V	VIC+>	VIC=6L*DELT	
752 00326 806 2 50000046 104C C004-2-5 753 00326 806 2 16600046 104C C004-2-5 754 00326 812 2 56000046 104C C004-2-5 755 00326 812 2 56000046 104C C004-2-5 755 00326 812 2 56000046 104C C004-2-5 755 00326 812 2 56000046 104C C004-0-2-5 755 00326 812 2 5600004 104C C004-0-2-5 757 00330 812 2 60000049 104C C004-0-2-5 759 00330 822 2 14000002 574 NMO NONE 759 00334 822 2 14000102 105 LDA CD50-2 764 00336 826 2 6404000		750				3000000		1	7.7.		
755 00346 806 2 50500048 104C LD8 C004-2-5 754 00324 806 2 15500048 104C LD8 C004-2-5 755 00324 810 2 55500046 104C LD8 C004-2-5 755 00326 810 2 55500046 104C LD8 C0040-2-5 755 00326 810 2 55500036 574 C0040-2-5 755 00336 810 2 55500036 574 NMO		751	_	804		2900000		200	2010		
755 00326 816 2 10800048 104C LD8 C004-2-5 755 00326 817 2 56800046 JS MULFO 755 00326 817 2 56800046 JS MULFO 756 00336 816 2 76800036 STB C0040-2-5 756 00336 816 2 66246004 JG STB C0040-2-5 759 00337 816 2 66246004 JG STB C0040-2-5 759 00334 82 2 64040000 BT REMEDIAL STB C0040-2-5 762 00338 82 6 2 64040000 JB REF 763 00340 832 2 64040000 JB STB TEMO-COS(CD50) 764 00336 836 2 56000106 JB STB TEMO-COS(CD50) 765 00346 836 2 560000046 STB TEMO-COS(CD50) 770 00346 836 2 560000046 STB TEMO-COS(CD50) 771 00346 846 2 54000106 JB STB TEMO-COS(CD50) 772 00346 846 2 54000106 JB STB TEMO-COS(CD50) 773 00356 846 2 500000046 STB TEMO-COS(CD50) 774 00355 846 2 500000046 STB TEMO-COS(CD50) 775 00346 846 2 54000106 JB STB TEMO-COS(CD50) 776 00356 846 2 500000046 STB TEMO-COS(CD50) 776 00356 846 2 5000000046 STB TEMO-COS(CD50) 776 00356 846 2 500000000000000000000000000000000000		752	_	806				LUX	5.000		
756 00324 810 2 50800046 158 C0040-2+5 756 00326 812 2 64040000 574 C0040-2+5 757 00330 816 2 75800036 574 C0040-2+5 757 00330 816 2 75800036 574 C0040-2+5 759 00332 816 2 75800036 104 759 00334 620 2 64300328 100 750 00335 622 2 14000006 100 751 00338 624 2 3000006 100 752 00338 626 2 6404000 100 752 00338 626 2 6404000 100 754 00338 626 2 6404000 100 755 00334 632 2 14000102 105 LDA CD50+2 756 00340 632 2 54000100 100 757 00344 636 2 64040000 100 758 00346 636 2 50000006 759 00346 636 2 64040000 100 771 00346 640 2 70000046 570 TEM0 771 00346 640 2 64040000 100 772 00346 640 2 64040000 100 774 00356 640 2 60000096 570 TEM2 775 00356 640 2 70000096 570 TEM2 776 00356 640 2 70000096 570 TEM2 777 00356 640 2 70000096 570 TEM2 778 00356 640 2 70000096 570 TEM2 778 00356 640 2 70000096 570 TEM2 779 00356 640 2 7000096 570 TEM2 779 00356 640 540 540 540 540 540 540 540 540 540 5		753		808			340	LOA.	5000		
755 0032C 612 2 64040000 5TA C0040+5 C00(1)D=CD0(1)*DELT 756 0033C 612 2 52600036 5TA C0040+5 C0040+5 C00(1)D=CD0(1)*DELT 757 0033C 616 2 76500036 5TA C0040+5 C00(1)D=CD0(1)*DELT 758 0033C 616 2 76500036 5TA NWO 104C 104C 104C 104C 104C 104C 104C 104C		154	-	810		26800046		LUB	C004-400		
756 6032E 314 2 3E800038 STA C00404.5 C001170=L0117		755		812				35	MULFU	T 1904 11 1000 - Over 1000	1-4-6
757 0.0330 816 2 7E800036 57H 5.000-2.57 759 0.0332 816 2 6.C260004 1040 1040 759 0.0333 622 2 14000038 1040 759 0.0336 824 2 3C000026 57A NWO 761 0.0338 824 2 3C000026 57A NWO 762 0.0334 826 2 14000102 105 LDA CD50*2 764 0.0342 830 2 54000100 105 LDA CD50*2 765 0.0342 836 2 54000100 1070 97A TEM 765 0.0344 836 2 00000088 57A TEM 767 0.0344 836 2 00000088 57A TEM 771 0.0344 842 2 14000106 57B TEM 772 0.0346 840 2 64040000 1070 1070 773 0.0346 840 2 64040000 1070 774 0.0346 842 2 14000106 1070 775 0.0346 846 2 64040000 1070 777 0.0346 846 2 64040000 1070 777 0.0346 846 2 54000104 1070 777 0.0346 840 2 70000048 57B TEM 778 0.0356 850 2 3C000046 57A TEM 775 0.0356 850 2 3C000046 57A TEM 775 0.0356 854 2 7C000046 57A TEM 775 0.0356 855 2 7C000046 57A TEM 775 0.0356 855 2 7C000046 775 775 775 775 775 775 775 775 775 77		156	1	914				STA	C0040.5	C00(1)0=C00(1) -DEC	-
758 00332 818 2 6430044 1MN 5.4.7 759 00334 620 2 14000008 100 1004C 769 00334 824 2 3C00002C 763 00330 824 2 3C00000C 765 00340 832 2 64040000 100 100 100 100 100 100 100 100		757	-	816		1		STB	C0040-2.5		
759 00334		758	OTO .	819		6C2d0004		Z	5.4.M		
760 00336 622 2 14000006 574 NONE 761 00338 624 2 3C00002C 762 00334 626 2 64040470 763 00336 826 2 14000102 105 LDA CD50*2 764 00336 830 2 5400100 765 00342 834 2 00000048 767 00344 836 2 00000048 767 00344 836 2 00000048 770 00344 836 2 00000048 771 00344 836 2 00000048 772 00346 840 2 70000048 773 00346 842 2 14000106 LDB CD51*2 774 00348 842 2 14000106 775 00348 842 2 6404000 777 00358 840 2 64040000 777 00358 850 2 50000068 776 00358 850 2 50000068 777 00358 850 2 3C000068 776 00356 854 2 70000098 776 00356 854 2 70000098 776 00356 854 2 70000098 776 00356 854 2 70000098 776 00356 854 2 70000098 776 00356 854 2 70000098 776 00356 854 2 70000098 776 00356 854 2 70000098 776 00356 854 2 70000098		159		950		64300328		760	1040		
762 00338         824 2 3C00002C         STA NMU           762 0033A         826 2 64040470         JS KSET           763 0033A         826 2 5400010Z         105 CD50*2           764 0033E         830 2 5400010Z         JS SINCUS           765 0034A         832 2 6404000         JS SINCUS           767 0034A         834 2 000000         JS SINCUS           767 0034A         836 2 3C00000         JS SINCUS           769 0034A         840 2 700000         JS SINCUS           770 0034A         840 2 700000         JS SINCUS           771 0034C         840 2 700000         JS SINCUS           772 0034B         842 2 1400010         JS SINCUS           771 0034C         846 2 6404000         JS SINCUS           772 0034B         842 2 200000         JR SINCUS           772 0034B         845 2 6404000         JR SINCUS           772 0034B         845 2 700000         JR SINCUS           774 0035C         845 2 700000         SINCUS           775 0035C         850 2 300000         SINCUS           775 0035C         850 2 700000         SINCUS           775 0035C         850 2 70000         SINCUS           775 0035C         850 2 70000         SINCUS		760				14000001		LOA	NONE		
762 0033A 826 2 64040470 JS HSET 763 0033E 830 2 2 54000102 105 LDA CD50*2 764 0033E 830 2 2 54000100 CD50 765 0034C 834 2 6004 765 00344 836 2 000000048 STA TEMO 767 00344 836 2 00000048 STA TEMO 770 00344 842 2 14000104 CD51 771 00346 842 2 14000104 JS SINCUS 773 00356 846 2 64040000 JS SINCUS 774 00356 846 2 60000038 STA TEMO 775 00356 856 2 70000048 STA TEMO 776 00356 856 2 70000048 STA TEMO 777 00356 856 2 70000048 STA TEMO 776 00356 856 2 70000068 STA TEMO 776 00356 856 2 70000068 STA TEMO 776 00356 856 2 70000068 STA TEMO		161						STA	OMN	ZAC=-I	
762 0033A         826 2 64040470         JS         KSET           763 0033C         828 2 14000102 105         LDA         CD50*2           764 0033E         830 2 5400100         JS         SINCUS           765 00342         834 2 00000048         JRU         *****           767 00344         836 2 00000048         FTR         TEM           767 00344         836 2 00000048         STA         TEMO*2           770 00344         836 2 14000104         STA         TEMO*2           770 00344         842 2 14000104         STA         TEMO*2           771 0034A         842 2 4000104         STA         TEMO*2           772 0034B         842 2 6404000         JS         SINCUS           773 0035         848 2 60000         JRU         ****           775 0035         848 2 6000         JRU         ****           775 0035         852 2 300000         SINCUS         ****           775 0035         852 2 30000         SIA         FEM2*2           776 0035         854 2 70000         SIA         TEM2*2           776 0035         850 2 70000         SIA         TEM2*2           776 0035         854 2 70000         SIA         TEM2*2							•				
763 0033A 826 2 64040470 JS KSET 763 0033C 828 2 14000102 105 LDA CD50+2 764 0033E 830 2 54000100 JMU CD50 765 0034C 834 2 0000000 JMU CD50 767 00344 836 2 000000048 STA TEM 769 00346 838 2 300000048 STA TEM 770 0034A 842 2 14000106 LDA CD51+2 771 0034C 844 2 54000104 JS SINCUS 772 0034B 842 2 14000106 LDB CD51+2 773 0035C 846 2 64040000 JRU CD51+2 774 0035C 850 2 300000048 STA TEM2-2 775 00356 856 2 300000068 STA TEM2-2 776 00356 856 2 700000068 STA TEM2-2 777 000350 856 2 7000000068 STA TEM2-2 777 000350 856 2 7000000068 STA TEM2-2 777 0000000000000000000000000000000000							٥		1000		
763 0033C 828 2 14000102 105 LDA CD50+2 764 0033E 830 2 5400100		162				0404049		57	KSE		
763 0033E 828 2 14000102 105 LDA CD50*2 764 0033E 830 2 54000100 765 00342 834 2 6004 765 00344 836 2 000000088 5TA TEM 769 00344 836 2 00000088 5TA TEM 770 00344 842 2 14000104 5TA CD51*2 771 00344 842 2 14000104 CD51 772 00346 844 2 54000104 CD51 773 00356 846 2 60000038 5TA TEM 774 00354 842 2 00000038 5TA TEM 775 00356 854 2 70000048 5TA TEM 776 00356 856 2 70000068 5TA TEM 777 00356 856 2 70000068 5TA TEM 776 00356 854 2 70000068 5TA TEM 776 00356 854 2 70000068 5TA TEM 776 00356 854 2 70000068											
764 00346 832 2 5400100 LD8 C050  764 00342 834 2 0004  767 00344 836 2 00000048 STA TEM  767 00344 836 2 00000048 STA TEM  769 00346 836 2 14000106 STA TEM  771 0034A 842 2 14000106 LD8 C051  772 00346 846 2 54001004  772 00346 842 2 00000038  773 00356 846 2 54000004  774 00352 850 2 00000038  775 00356 854 2 7000006 STA TEM2  776 00356 854 2 7000006 STA TEM2  776 00356 854 2 7000006 STA TEM2  776 00356 854 2 7000006						5010001	105	1.04	5+0505		
765 00340 832 2 64040000 JS SINCUS 765 00344 836 2 0000404 STA TEM 767 00344 836 2 00000048 STA TEM 769 00346 840 2 70000048 STA TEM 779 00348 842 2 14000106 LDB CDS1+2 771 00346 842 2 54000104 JS SINCUS 772 00348 842 2 54000104 JS SINCUS 773 00350 846 2 64040000 JRU PTR TEM1 774 00352 850 2 00000048 STA TEM2-2 775 00356 854 2 70000046 STA TEM2-2 776 00356 854 2 70000046 STA TEM2-2		101				20100015	-	LDB	0500		
765 00340 832 2 64040000 JKU 9.44  767 00344 836 2 00000048 STA TEMO-7  767 00346 840 2 70000048 STA TEMO-2  770 00346 840 2 70000048 STA TEMO-2  771 00346 842 2 14000106 LDA CD51-2  772 0034 842 2 14000106 LDA CD51-2  773 0035 844 2 54000104 JKU CD51-2  774 0035 846 2 64040000 JKU PTR TEMI  775 0035 850 2 30000068 STA TEM2-2  776 00356 854 2 70000068 STA TEM2-2  776 00356 854 2 70000066 STA TEM2-											
765 00342 834 2 64040000 JS SINCUS 767 00344 836 2 00000048 5TA TEMO+ 769 00346 838 2 3C000048 5TA TEMO+ 759 00346 840 2 7C000044 5TB TEMO 771 00346 842 2 14000104 LDB CD51+2 772 00346 842 2 64044000 JS SINCUS 773 00350 846 2 6004 774 00352 850 2 00000068 5TA TEM1 775 00356 854 2 7C000066 5TA TEM2- 776 00356 854 2 7C000066 5TA TEM2-							•			109007710-101	
766 00342 834 2 0004 767 00344 836 2 000000088 5TA TEM 769 00346 838 2 300000086 5TA TEM 769 00346 842 2 14000106 LDB CD51+2 771 0034A 842 2 14000106 LDB CD51+2 771 0034A 842 2 64040000 JS SINCUS 773 00350 846 2 64040000 JS SINCUS 774 00352 850 2 000000038 5TA TEM2-2 776 00356 854 2 70000056 5TA TEM2-2 776 00356 854 2 70000056 5TA TEM2-2		165						S	SINCOS	TEMPOLOGICOSO)	
767 00344 836 2 00000048 5TA TEM 758 00346 638 2 30000048 5TA TEM0•2 759 00345 840 2 70000048 5TA TEM0•2 759 00348 840 2 70000044 5TB 00350 840 2 14000106 LDB CDS1•2 771 00344 2 540040000 JRU CDB CDS1•2 772 00346 846 2 64040000 JRU CDB CDS1•2 775 00350 846 2 64040000 JRU CDB CDS1•2 775 00356 850 2 30000046 5TA TEM2•2 776 00356 854 2 7000096 5TA TEM2•2 776 00356 854 2 7000096 5TA TEM2•		766				0000		חאר	***	100000000000000000000000000000000000000	
759 00344 838 2 30000056 5TA TE40+2 759 00346 840 2 7000056 5TA TEM0 779 00346 840 2 7000056 5TA TEM0 771 00346 842 2 14000106 LDA CD51+2 771 00346 842 2 14000106 LDA CD51+2 772 00346 845 2 64040000 JS SINCUS 774 00352 850 2 30000058 5TA TEM1 775 00356 856 2 70000056 5TA TEM2 776 00356 854 2 7000096 5TA TEM2	ENERATED	,						3 7 2	ТЕм		
759 00349 840 2 70000044 STB TEM0 770 00344 842 2 14000104 LDB CD51-2 771 0034C 844 2 54000104 LDB CD51 772 0034E 845 2 6404,000 JS SINCUS 774 00352 850 2 00000048 PTR TEM1 775 00356 854 2 7000006E STA TEM2-2 776 00356 854 2 7000096C STA TEM2-2		10						STA	TEM0+2		
770 0034A 842 2 14000106 LDA CD51+2 771 0034A 842 2 14000104 LDB CD51-2 772 0034E 844 2 5400104 JS SINCUS 773 00354 846 2 64044000 JS SINCUS 774 00352 850 2 00000038 PTR TEM1 775 00356 854 2 7000006 STA TEM2-2 776 00356 854 2 7000096 STA TEM2		101						STa	TEMO		
770 0034A 842 2 14000106 LDA CD51+2 771 0034C 844 2 54000104 LDB CD51 772 0034E 845 2 64040000 JS SINCUS 773 00350 846 2 6004 774 00352 850 2 00000038 PTR TEN1 775 00356 854 2 7000096 STA TEM2-2 776 00356 854 2 7000096 STA TEM2-2		0				-	,				
770 0034A 842 2 14000106 LDA CD51*2 771 0034C 844 2 5400104 LDB CD51 772 0034E 845 2 6404000 JRU **4 773 0035U 848 2 6004 774 0035Z 850 2 0000004B PTR TEN1 775 00354 852 2 3000004B STA TEM2*2 776 00356 854 2 7000096C STB TEM2*2							•				
771 0034C 844 2 54000104 LDB CD51 772 0034E 845 2 6404000 JRU *** 773 00350 848 2 6004 774 00352 850 2 00000038 PTR TEN1 775 00354 852 2 3000008E STA TEM2*2 776 00355 854 2 7000096C STB TEM2*2		111						LDA	CD51+2		
772 0034E 646 2 6404000 JS SINCUS 773 00350 848 2 6004 JRU *** 774 00352 850 2 00000038 PTR TENI 775 00356 854 2 7000096 STA TEM2*2 776 00356 854 2 7000096 STA TEM2*2		77						LUB	1500		
773 00354 848 2 6004 773 00359 848 2 6004 774 00352 850 2 00000038 PTR TEM1 775 00356 854 2 7000006 5TB TEM2•2 776 00356 854 2 7000096 5TB TEM2•								5	STMCOS	TEM1=SIN(CDS1)	
774 00352 850 2 00000038 PTR 775 00354 852 2 30000008E STA 776 00356 854 2 7000008C STB		11						220	1++	TEM2=CUS (CD51)	
774 00352 850 2 00000038 PTR 775 00354 852 2 3C00008E STA 776 00356 854 2 7C00009C STB	CHEDATED										
00354 852 2 3C00008E 51A 00356 854 2 7C00008C 5TB	2	17.						212	TENI		
00356 854 2 7C00008C SIB		11						STA	IEMZ*Z		
		17						SIB	IEMC		

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DIAGNOSTICS LINE AURES DAUNES LC PROGRAM

DECK NAME=\*INIT \*

VERSION K20AUSUS

INITIALIZE MATRIX OC(1.J)

1	H 00 177	417	1	5020000	YOU	5.0C.M	
1		T T	1	2007275	XOT	4.TEMZ.M	
1		460	1	144	STA	2.5	
1		202	11	1440	STB	0.5	0C(1,1)=C0S(CD51)
7		200	1	14000086	· LUA	TEM0+2	
1		804	N	540000045	103	TEMO	
11		999	-	SARS	STA	18.5	0C(2.2) =C0S(C050)
1		867	V	7446	STB	16.5	
7		858	~	00005059	Sr	MULFU	COS (CD21) *COS (CD20)
72		870	v	3491	STA	34.5	0C(3.3) = COS(CUSI) *CUS(COSU)
7		871	V	7490	578	32.5	
7		872	V	140000AA	LUA	TEM+2	
1	789 00364	974	V	540000A8	LUH	TEM	
1	790 00360	370	N	94040300	SC	MULFO	CUS(CDS1)*SIN(CDS0)
7		272	N	3488	STA	22.3	
1		873	~	TAGA	STB	20.02	0C(3.2)=C0S(C051)*SIN(C050)
1	793 00370	880	N	1400001C	LUA	ZEHU	
1		988	2	54000010	LUB	ZERU	
7		480	N	3483	STA	6,5	UC(2.1)=0
1		880	N	IABE	STb	4.5	
1	( ) Control	989	2	LC0000AB	SFD	TEN	0-SIM(CDS0)=-SIM(CDS0)
1		880	2	SAME	STA	30.5	
1		883	~	7A8E	STB	28.5	OC(2.3) = -SIN(CO50)
	300 0037A	069	2	14000004	LUA	TEM1+2	
n		268	V	54000088	108	TEMI	
T		474	2	3465	STA	10.5	OC(3.1) = SIN(CD51)
D	803 0037F	669	2	7484	STB	8.5	
œ		968	~	1400001C	LUA	ZEHO	
r		848	N	5400001C	LDB	ZEHO	
r		006	N	LC000038	SFU	TEM1	0-SIN(CDSI)= -SIN(CDSI)
r		306	V	3C00008A	STA	TEM1+2	
x		304	2	7C0000HB	STB	TEM1	
00		906	V	56220088	LOX	4 . TEM1 . M	
r	810 0038C	200	v	1400000A	LUA	TEM+2	
r	511 0038E	910	~	240000AB	FOR	TEM	
10		216	V	00000000	SC	MULFU	COSOLINIST (ISOLINIST
r		716	V	3AF /	N I I	14.0	(0501) NIS + (1502) NIS - = (5-11) O
0 0	015 00300	915	00	4000000	VI.	TEMO+2	
0 3	416 00394	010	9	54000042	101	TEMO	
0 3		000	J 1	200000000000000000000000000000000000000	15	MISI FILE	-SIM(CUSI) *CUS(CUSO)
. 1		000	17	3450	STA	26.5	
1	100001	623	10	ZAHC	STR	24.5	0C(1.3) = -SIN(CDS1)*COS(CDS0)
			1		*		
					* CLEAR MA	MATHIX E(I.J)	
9	320 6039C	726	2	SC240022	LOX	5.34.M	
T		956	V	14000010	LOA	2EH0	
D		976	2	3E40009C	105A STA	£1.5	
		930	2	<b>20008239</b>	N I	5.2.M	
r	324 00344	932	2	64300340	096	IUSA	

VERSION K2040503 DECK NAME=\*INIT \*

SOURCE						ASCH=-4. SETS ALIGN SCHEDULER FOR 1/3 SECOND ACCUMULATION OF DELTA V		ENTRY 4 OF VECT = CALL TO ALIGN				0.5(1,2)=0		06(3•1)=0							06 (3,2) = SIN (HEAU)			DG (3.2) =-SIN (HEAD)							DG(1•1)=1-0
	CLEAR KSN1, KSN2, KSN3	KSMI	KSNZ	KSN3	NFOUR	ASCH	2	VECT+6	MY		2.00.00 20.00	12.5	14.5	8.5	10.5	HEAU+2	HEAD	SINCUS	***		20.5	ZEHU	ZEHO	20.5	22.5	20.5		FONE	ZERU		5.5
	CLEAR KSN	STA	STA	STA	LUA	STA	401	STA	BSIG= DUMMY	,	Y 0	STA	STA	STA	STA	LUA	607	JS	חאר		PTR	LDA	108	SFD	STA	STB		LDA	LDB		AIS
PHUGHAM	***	3C00004E	30000050	30000052	14000004	30000036	2 14000018	2 3C00017A	, ,	*	2 14000010	2 3Ad6	3487	3A84	3485	14000064	54000068	00000000	6004	0010	02800014	1400001C	5400001C	2 DABA	3488	2 7ABA	0010	2 1400001E	2 5400001C	1 2 4 g 1	TOHO
LC		2	2	V		~								~	~	~	2	2	2		2	2	2	2	2	~		2	~		U
DADRES		934	936	938	046	246	944	946		0,70	0000	952	953	954	955	956	956	960	396		496	996	896	976	971	216		974	916	075	916
AURES		00346	00348	OUSAA	OUSAC	003AE	00380	00382		00.00	00386	00348	96500	00334	00348	003BC	0039E	00300	00362		00364	00306	00308	003CA	00369	003CC		003CE	00300	2000	2000
INE		858	979	127	958	858	830	931		2		834	335	436	937	838	939		841		245		776	845		244		851	648	250	000
DIAGNUSTICS LINE AURES DADRES LC PRUGRAM																				GENERATED							GEMERATED				

			٠		NAVI	
00				SUBROUTINE NAVI	NAVIGATION INITIALIZATION	NOI
00308			,	ENTRY	NAVI	
000	286	2 00000000	I VAVI	N X Y	115M	
00304	996		0 4	STA	VECT+6	ENTRY 4 OF VECT = CALL TO NAV
003DC	988		4	LDA	ONE	
0030E	066	2 300000000	10	STA	NAVE 4.CGDI • M	SEI NAV FLAG FOR NAVIGATION
003E2	166			LUA	KGDL+2	
00364	966		0	LDB	KGDL	The state of the s
003E6	866	200000000000000000000000000000000000000		35	MULFU	(COUL*NOUL)
00358	1000	2 3C000086	0 1	STS	TEM0	TEMU=(CGDL*KGDL)
003EC	1001	2 50220084	1	LUX	4 . TEMU . M	
003EE	9001		4	LOA	SGUL+2	
00350	2001	8000000000	0 =	120	DECATO	TEMPEATAN (SGDL / (CGDL *KGDL))
00354	1012			S)	SINCUS	
003F6	1014	5 6004		חאר	† <b>*</b> • • • • • • • • • • • • • • • • • • •	SGCL=SIN(TEMU)
0.000	,,,,,		0	of c	13.13	1000 - 000 TEMOT
00353	1018	2 30000034	1 4	x 12	CGCL+2	000000000000000000000000000000000000000
OUSFC	1020		100	STB	7090	
003FE	1022		8	LDX	4, CGCL, M	
00100	1004	250000000	00	25	MULF U	2
10100	1028			STB	CSec	
00400	1030		1	LDX	4. SGCL . M	
00400	1032	2 14000036	9	LDA	Sect +2	
00400	1034		4	LOB	SGCL	
0040C	1036	2 64040000	0	35	MULFU	S26C=S6CL**2
0040F	1038	2 3COUGOSE	ı	STA	S266.2	
00410	1040	2 70000020		STB	S26C	
			*			
00415	1042	2 64040000	* *	S	IF2	COMPUTE DELK AND KAD
00414	1044	2 50220000		LOX	4.4AD.M	
60415	1046		A	LUA	C6CL+2	
00413	1048		9	LUH	T090	
0041A	1050		0	Sr	MULFO	X=HAD*CGCL
0041C	1052		7	STA	X+2	
0041E	1054		0	818	× 1	
00450	1056		9	LUA	S6CL+2	
00452	1058		*	407	Sect	1000000
12400	1060		0	SC	MULFU	77954045=7
00456	1062	2 3C0000CA	A	STA	2+7	
97400	1004	2 1000000	0	2.0	7	

	SOURCE	Y=0		LAIB=0		LONNED		0=x^	1	0=71					X & UMG A		VY=UMGA*X			KKYZ=KAD					LONS=LONL		LGO=LONL		CC. C - 34.12	1 IME=1 IME-3/36		**********	150=10		
		Y+2	<b>&gt;</b>	LATB+2	LATB	LONB+2	LONB	VX+2	× ^	77.5	7.7	4.0MGA.M	X+2	×	MULFO	VY+2	٧٧	RAD+2	MAD	RXYZ+2	RXYZ	LONL+2	LONL	LONG+2	LUNG	L60+2	L60	TIME+2	I ME	03032	2+01	10	1LP0+2	1.50	IISM
		STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	LOX	LOA	LDB	Sr	STA	STB	LDA	108	STA	STB	LDA	EUB LUB	STA	STB	STA	STB	LOA	108	SFU	STA	STB	STA	SIB	A X
* IIVI	LC PHOGRAM	2 3C0000C6	2 3C0000C4	2 30000026	2 3000024	2 30000022	2 30000020	2 30000016	2 30000014	2 3C00001E	2 30000010	2 50220024	2 14000002	2 540000C0	2 64040000	2 3C00001A	2 7C000018	2 14000002	2 54000000	2 30000006	2 70000004	2 1400011A	2 54000118	2 3C00000E	2 7C0000UC	2 3C00002A	2 7C000028	2 1400005A	2 54000058	2 UC000038	2 3C00005E	2 7C00005C	2 3C0000DA	2 7C00000b	2 74000006
DECK NAME = * INIT	DAURES L		1070	1072	1074	1076	1075	1080	1082	1084	1086	1088	1090	1092	1094	1096	1098	1100	1102	1104	1106	1108	1110	1112	1114	1116	1118	1120	1122	1124	1126	1128	1130	1132	1134
)30	AUMES		604ZE	00430	60432	00434							00442		-			-		-			-	_	_	00450	-	00400	00462	_	99700	00468	0046A	0046C	0046E
VERSION K20A0503	DIAGNOSTICS LINE		006	901	208	903	406	506	906	706	806	606	910	911	715	913	716	918	916	917	918	616	920	921	926	923	924	926	956	126	928	929	930	931	932

VERSION K2040503	140503		UECK NAME=*INII	* IINIa=					PAGE
DIAGNUSTICS LINE ADMES DADMES LC 934	5 LINE 434 935	AUMES	DAURES	LC PHOUNAM	Α	FENTRY	RSET	SOUNCE	
						SUE	SKOUTINE RSET	SUBROUTINE RSET (ALIGNMENT RESEL)	
						THIS ROUT!	INE SELECTS	THIS KOUTINE SELECTS THE SOLUTION TIME AND MODE FOR THE ALLUMENT.	
	450	664.70	1.04			ore			
	937		1138	2 14000010	10 I I 01	LOA	ZERO		
	938		1140	2 3000024	54	STA	SKA		
	940	00470	1144	2 5C2A000A	0 P	SIA	5.10.0	S4A=0	
	941		1146		ALUIN BI		VAX.5	CLEAR VAX.VAY.6VAZ	
	246	0047C	1148	2 6C2BUU02	202	IMN	5,2,3		
					٠	200	41,11		
						CLEAR YA],YAZ,YB] NOTE: THESE LOCAT	.YAZ.YSI.YBZ SE LOCATIONS	CLEAK YA],YAZ,YUJ,YBZ,YCJ,YCZ,XAJ,XAZ,XUJ,XBZ,XCJ,XCZ, VODTIE: THE SE LOGATIONS ARE CONSIDERED TO BE IN CONTIGUOUS COATTONS IN COME	
					٠	, , , , , , , , , , , , , , , , , , , ,			
	344		1152	2 SCZAUOZE			5,46,M		
	245		1154	2 3E80002E	2E 11018	STA	XA.5		
	447	00100	1156	2 64300430	22	2 5	5,2,4 M		
	948		1160	2 50280020	20 1102	200	0.00		
	646		1162	2 6C2A0001		IMP	5.1.M		
	950		1164	2 10280020	50	STX	S.NMU	NMO=NMO+1	
	156		1166	2 242A0000	00	ICN	S.0.M	CHECK FUR NMU=0	
	726	06400	1158	2 54 3004EC		760	IIUZA		
	954		1172		1 3	100	20011	CHECK FOR NMU-GE-1 OR -LE-3	
	955		1174	2 14000000	00	LDA	N64		
	956		1176	2 30000024	74	STA	NCCD	NCCD=-64	
	957		1178	2 1400000A	40	LDA	ONE		
	220	2000	1190	2 5050	97	STA	5441	SA +1 = 1	
GENERATED			3011		00	250	1193A		
	096		1184	2 242B000	24280007 IIU28	ICL	5.7.M	CHECK FOR NMU.GE.4 OR .LE.6	
	961	00442	1186	S 643004C0		760	IIUZC		
					***	***************	***		
						20 000			
						SEI UP CO	ARSE SULUITOR	SET UP COARSE SULUTION SCALING SHIFTS	
					00000	**************	*****		
	296		1186	2 1400000A	A	LDA	LAT+2		
	200	00440	1190	2 54000008	10	LOB	LAI		
	960		1194	2 620C	3,	J.R.	11.241		
GENERATED					0.				
	956	004AC	1196		9	LDA	N1200		
	158		1200	2 1400001C	<b>t</b> U	A 1 C	ACCD ZFRO	NCC0=-1200	
	-				,	1	2007		

AFAL-TR-77-8 Volume II

DECK NAME=\*INIT \*

VERSION K20A0503

9869																				ITS																	
	SOURCE	MCSI=0		NCC0=-1480		MCSI=1		CHECK FOR NMO=7			FLGN=0					200 1. 201 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3AVI=1IME+1/32			16 SHIFTS FIDDLE WITH BITE BITS					4CS1=3		NCC0=-7200		C=1505	3-10	NCCD=-4800			ACCU=-8	SAMI=0		
		MCS1 N		NI 680			1163	5,7,M			2		I.N.S. NUT ALIGN LIGHT OFF		TIME+2	•		SAVT	* * * *	SET UP FINE SOLUTION SCALING SHIFTS	200 00000000000000000000000000000000000	FASI	114201	1		0	NCCU NO	07.1		0	NCCD NC	1143		ZERU NCC		Пиза	
	• 10	A DAU		IIUZBI LUA STA	LDA	STA	חאר		200	LUA STA	974 8/5		I.N.S. NOT	**************	LUA	AFD	STA	STB 11020	* * *	SET UP FIN	***************************************	LDA	JRN	•	STA	LOA	A 00		STA	LOA	STA		IIUZA LOA	L04	STA	חאר	
DECK NAME = * INIT *	S LC PROGRAM	2	•	vv	2	20		2 2424		u 1	2 35000030	•			2 1400005A	~	~	2 7C000032		• • •	* *	2 1400000C	2 6100	0700	i N		2 6016	0700	N	N	2 50000	0010	2 14000002	10	N		0001 6
	INE ADRES DADRES	00484	90000		00484	974 0048C 1212	7010		978 004C4 1220	00400					980 004C8 1224 981 004CA 1226	22400	004CE	385 00402 123				986 00402 1234	90400	99 00408 1240	0040A	00400		4 004EZ 1250	004E4	004E6	d 004EA 1258	00.00	0 004EF 1260	00450	3 004Fc 1266	1	4 004F6 1270
VERSION K20A0503	DIAGNOSTICS LINE	6 GENERATED		•	•	. 0	GENERATED	.50	5	.6					96	96	9	200				986	986	SENERALED 989	066	266		GENERATED 994	566	965		GENERATED	1000	1001	1002	GENERATED	1004

52

PAGE

SOURCE NCCU=0

NCCU+2 NCCU+2 IIIam

STA STA END

DIAGNOSTICS LINE ADRES DADRES LC PRUGRAM
1007 004FC 1276 2 3C00002A
1009 00500 1260 2 74000004
1010

DECK NAME = \* INIT \*

VERSION K20A0503

STATISTICS

TOTAL SHORTS 138
TOTAL LONGS 484
TOTAL INSTRUCTIONS 522
PERCENT SHORT 234
GENERATED NOPS 334
THEORETICAL PERCENT NOP LOADING 10.1
ACTUAL PERCENT NOF LOADING 3.0

****ERROR MESSAGES***	LOCATION COUNTER
ERROR MES	REDEFINE REDEFINE
*	01 10
	ATTEMP ATTEMP
	DIAGNUSTIC ILLEGAL ATT
DECK NAME=*INIT *	LINE NUMBER  1 226
	LIN

PAGE

AFAL-TI Volume	R-77- II
2	
PAGE	

CONTRICT	REF 1		NAME	* LINI+=		SKC	SKC 2000 CAUSS	S	EFERENC	REFERENCE DICTIONARY
0042 295 0043 296 0043 296 0043 297 0044 297 0044 297 0044 297 0044 297 297 0044 297 297 297 297 297 297 297 297 297 297	TOR SET			4	LINE NUMB	ERS OF OC	CCURRE	VCES		
9 COURS   246   246   246   246   247   24	EX	DEC	LC		DEF INE	O REFEREN	CES			
9 CD43 9 CD44 9 CD44 9 CD45 9 CD54 9 CD56 9 CD56 9 CD57 9	00E0	554	•	2600	562					
9 CO44 9 CO44 9 CO45 9 CO45 9 CO45 9 CO45 9 CO55 9	10E4	228	0	C043	962					
9 CD45 9 CD49 9 CD49 9 CD49 9 CD49 9 CD50 9 CD51 9 CD52 9 CD52 9 CD52 9 CD52 9 CD54 9 CD52 9 CD54 9 CD54 9 CD55 9 CD54 9 CD55 9 CD56 9 CD57 9	9300	232	•	C)44	247					
9 CD46 9 CD47 9 CD56 9 CD57 9	DEC	236	•	CD45	248					
9 CD47 9 CD48 9 CD49 9 CD54 9 CD54 9 CD55 9 CD56 9 CD56 9 CD56 9 CD56 9 CD57 9 CD56 9 CD57 9 CD56 9 CD56 9 CD57 9 CD56 9 CD57 9 CD56 9 CD57 9 CD67 9 CD57 9 CD67 9	0 + O	540	•	C046	662					
9 CD49 9 CD49 9 CD49 9 CD50 9 CD51 9 CD52 9 CD52 9 CD52 9 CD52 9 CD53 9 CD53 9 CD53 9 CD54 9 CD55 9 CD54 9 CD55 9 CD56 9 CD56 9 CD56 9 CD57 9 CD56 9 CD57 9	10F4	544	•	C047	300					
9 CD56 9 CD57 9 CD58 9 CD59 9 CD69 9 CD59 9 CD69 9	0F8	249	6	CD48	301					
9 CD50 9 CD51 9 CD52 9 CD52 9 CD52 9 CD53 9 CD54 9 CD54 9 CD54 9 CD55 9 CD55 9 CD55 9 CD55 9 CD56 9 CD57 9 CD56 9 CD57 9	OFC	256	3	6500	302					
CUSS 305 770 771 770 770	100	256	0	CD50	303	763	164			
CUSS. 305 9 CDSA 307 9 CDSA 311 9 CDSA 312 9 CDSA 313 9 CDSA 314 9 CDSA 315 9 CDSA 315 9 CDSA 316 9 CDSA 317 9 CDSA 318 9	104	560	6	CU51	304	770	77.1			
COSS4 300 COSS4 300 COSS4 300 COSS4 300 COSS4 300 COSS 301 COSS 300 COSS 30	108	504	•	C052.	305					
9 CD54 9 CD55 9 CD55 9 CD57 9 CD56 311 9 CD56 311 9 CD57 313 9 CD57 311 9 CD57 311 9 CD57 9 CD67 316 9 CD67 317 9 CD67 317 9 CD67 318 9 CD67 9 CD67 318 9 CD67 9 CD67 135 9 CD67 135 9 CD67 135 9 CD67 135 136 137 137 138 138 138 138 138 138 138 138 138 138	100	566	•	C053	306					
9 CDS5 313 9 CDS6 313 9 CDS6 313 9 CDS7 313 9 CDS7 313 9 CDS7 314 9 CDS7 315 9 CDS7 315 9 CDS7 317 9 CDS7 318 9 CDS7 318 318 9 CDS7 5 CDS7 5 CDS7 5 CDS7 5 CDS7 5 CDS7 5 CDS7 6 C	110	272	•	C054	307					
9 CD56 313 9 CD57 313 9 CD57 314 9 CD58 315 9 CD58 315 9 CD59 315 9 CD50 317 9 CD50 317 9 CD60 317 9 CD61 317 9 CD61 317 9 CD61 317 9 CD62 184 222 707 10 861 125 642 126 127 127 128 128 128 128 128 128 128 128 128 128	114	276	•	C055	309					
9 CD57 313 9 CD56 314 9 CD59 315 9 CD60 317 9 CD61 318 9 CD61 318 9 CD62 319 9 CD62 319 9 CD64 319 9 CD64 319 9 CD64 319 9 CD64 319 9 CGCL 184 222 709 170 861 125 641 185 262 184 7 CM1 262 184 182 27 7 CM2 182 87 888 888 888 888 888 888 888 888 88	118	280	5	C056	311					
9 CU58 314 CU59 315 CU61 317 317 317 318 CU62 318 319 CU64 318 CU64 320 CU64 320 320 320 320 320 320 320 320 320 320	110	584	5	1500	313					
9 CU59         315           9 CU60         316           9 CU61         317           9 CU62         318           9 CU64         320           319         874           9 CU64         320           319         874           8 CU64         135           184         222           185         876           186         222           187         871           188         222           189         871           189         871           189         871           189         871           189         407           189         407           189         407           189         407           189         407           189         407           189         407           189         407           180         399           181         489           182         396           181         489           182         489           182         489           183         489	120	288	0	CUSA	314					
9 CD60         310           9 CD61         317           9 CD62         318           9 CD63         319           9 CD64         319           9 CD64         319           9 CD64         135           184         222           185         876           186         222           187         888           189         871           189         871           189         871           189         37           189         37           189         440           189         407           189         37           189         37           189         440           189         464           189         464           189         467           189         466           189         467           189         466           189         466           189         466           189         467           189         466           189         467           189         466	124	262	•	CU59	315					
CU62 318 CU64 319 CU65 318 CU64 320 319 CU64 320 CU64 135 CU64 125 CU64 135	128	596	•	CD60	316					
CGCL 135 874 875 876 888 CGCL 135 874 875 876 888 CGCL 135 641 70 710 861 CGCL 135 CGCL 135 876 397 414 421 CGCL 137 CGCL 133 878 645 645 70 CGCC 133 878 645 70 CGCC 133 878 645 70 CGCC 134 135 643 70 CGCCC 137  137 643 70 CGCCC 137 879 70 CGCCC 137 870 CGCCCC 137 870 CGCCCCC 137 870 CGCCCC 137 870 CGCCCCC 137 870 CGCCCC 137 870 CGCCCCC 137 870	12C	300	•	CD61	317					
CONCOL 135  CONCOL 135  CONCOL 135  CONCOL 135  CONCOL 135  CONCOL 222  CONCOL 223  CONCOL	130	304	•	CU62	318					
COCCL 135 874 875 876 888 CGCL 184 222 709 710 861 125 CGCC 184 396 397 414 421 125 CGC 193 879 407 422 125 CGC 194 446 459 462 125 CGCC 194 446 459 462 126 CGCC 194 446 459 462 126 CGCC 194 446 459 462 126 CGCC 194 133 879 643 124 643 844 832 126 CGCC 194 124 643 444 832 126 CGCC 196 204 299 206 213 870 CGCC 196 248 344 740 643 740 643 740 643 740 740 740 740 740 740 740 740 740 740	134	308	0	C063	319					
CGCL 135 974 875 676 888 CGCL 135 641 709 710 861 CGCL 135 641 709 710 861 CGCL 125 641 709 710 861 CGCL CCGCL 135 641 709 710 861 CGCL CCGCL 223 709 710 861 CGCCC CCGC 73 30 70 70 70 70 70 70 70 70 70 70 70 70 70	138	312	0	C064	320					
CGUL 184 222 709 710 861 125 CHAJ 125 CONCON. 223 22	038	95	9	CGCL	135	874	875	876	888	889
CCIPM 125 641  4 CIPM 222  CONCOM 223  CONCOM 223  4 CTR1 30  CTR1 30  CTR2 31  CWT CTR2 30  CCIPM 310  CCIPM	200	12	1	CGUL	184	222	109	710	861	
T CLC 222  CONCON. 223  CONCON. 224  CONCON. 224  CONCON. 226  CONCON.	012	18	9	CHAJ	125	641				
7 CL CONCON, 223 4 CTR2 30 4 CTR2 31 5 CMT 29 5 CMT 29 6 CEGC 193 394 407 7 CJ 193 394 407 7 CJ 193 394 397 414 6 CEGC 193 396 397 414 7 CJ 193 396 407 8 CEGC 193 396 407 9 CEGC 193 444 459 462 9 CEGC 193 462 999 9 CEGC 193 344 506 513 9 CEGC 194 643 994 9 DELT 248 506 513 9 DELT 248 506 513 9 DELT 248 643 994 9 DELT 248 643 994 9 DELT 248 643 994 9 DELT 248 506 513 9 DELT 248 643 994 9 DELT 248 643 994 9 DELT 248 643 994 9 DELT 248 693	038	50	1	CIPM	61					
CONCON- CONCON- CONCON- COTAL 30 4 CTAL 30 31 7 CWT 6 CTAL 31 182 31 182 31 31 31 32 407 407 407 407 407 407 407 407 407 407	200	12	1	CL	222					
C CTR1	000	0	,	CONCOM	223					
C CTR2 30 31 31 31 31 31 31 31 31 31 31 31 31 31	052	28	4	CTRI	62					
CVLE 25 CVCLE 25 CVCCC 133 845 407 CVC 25 CVCCC 133 845 407 CVC 25 CVCCC 133 845 407 CVC 25 CVCCC 134 845 856 CVCCC 137 CVC 25 CVCCC 137 CVCCCC 137 CVCCC 137 CVCCCC 137 CVCCC 137 CVCCC 137 CVCCCC 137 CVCCC 137 CVCCCC 137 CVCCCC 137 CVCCCC 137 CVCCCCC 137 CVCCCC 137 CVCCCC 137 CVCCCC 137 C	950	94	t	CTRZ	30					
7 CWT 25 388 389 407 CTC 21 192 396 397 417 C2 193 396 397 414 62 C26C 193 879 407 414 62 C26C 193 879 454 459 452 62 C26C 193 879 879 62 C26C 193 879 879 62 C26C 193 879 879 679 679 679 679 679 679 679 679 679 6	950	99	t	CTA3	31					
CCI 193 388 389 407 7 CI 193 388 389 407 7 CI 193 388 389 407 414 6 C26C 193 193 1946 459 462 6 C3 194 446 459 462 7 CI 193 194 446 459 462 7 CI 193 194 459 462 195 6 C26C 194 195 643 195 642 195 643 196 6 C26C 196 196 196 196 196 196 196 196 196 196	700	*	1	CWT	182					
7 C1 192 388 389 407 7 C2 193 388 389 407 7 C2 193 388 389 407 7 C2 133 878 879 414 6 C26C 133 879 446 459 462 7 C4 199 216 642 999 216	04A	14	t	CYLE	52					
7         C2         193         396         397         414           6         C26C         133         878         879         462           7         C3         194         446         459         462           7         C4         195         454         459         462           7         U         37         216         459         462           8         U         113         642         999         462           9         C         124         642         999         488         506         513           9         C         C         642         999         500         513           9         C         C         642         999         513         642           9         C         C         642         999         513         642         642         642         999         642         642         642         642         999         642         999         643         643         644         643         644         832         644         740         643         644         643         644         632         644         643         644	02E	40	1	C1	192	388	389	401	422	
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	434	1	185F	247	536											
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SKC 2000 CRUSS REFERENCE DICTIONARY OF OCCURRENCES FERENCES	785	1000			
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150			243	557		60	LSH OF LATITUDE
130			246	552	~	90	OF
126	1		045	455	2	0.7	5
200			247	HSS	2	90	
130			240	858	2	60	9
135			640	HSS	2	10	9
134			A40	855	2	11	5
136			04H	HSS	2	12	
138			04C	888	2	13	LSH OF NORTH VELOCITY
100			046	HSS	~	14	I.N.S. ALTITUDE
140	t :		240	155	12	15	AHRS HEADING
17.6	1		090	HSS	~	16	AHRS PITCH
17.6	1		066	HSS	~	17	AHRS RULL
0 1 7			200	888		18	RESET, IMU, DPU, EAU, CDU, DCU, BATT BITE BITS
150			030	HSS	~	19	3RD+4TH+5TH+61H+ RIGHT NUMERIC
150	1		031	455	2	50	4 DISCRETES: K. ALPHA; IST, 2ND K. NUMERIC
751			035	455	~	21	2ND, 3RD, 4TH, 5TH LEFT NUMERIC
154			033	858	2	22	1ST, 2ND WAYPUINT; L. ALPHA; 1SI L. NUMERIC
15.			034	455	~	23	15T, 2ND FROM 15T, 2ND TO
150			035	188	~	54	CDU/ACDU DISPLAY LIGHTS
150			620	155	10	25	HEADING
166			021	858	1 ~	56	PITCH
104			022	HSS	, ~	27	RULL
168			024	HSS	2	28	STEERING SIGNAL
170				888	2	62	TIO MINOUTHING
172			014	888	2	30	SEO CN1,61,2 RED,61,2 LERM SHUTDOWN DITE
174			072	888	2	31	TORQUE FOR GIMBALS 1 AND 2
176	4		071	888	~	32	TORQUE FOR GIMBALS 3 AND 4
178	t		040	988	~	33	
180	t		340	888	2	34	KAL AND VERITCAL VELOCITY
182	t		050	988	2	35	+ UELIA VA
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Janus	SUURCE		GAIN COLUMN INDEX	GAIN COLUMN INDEX	GAIN COLUMN INDEX	TEMP SAS MAININ	TOTAL GIMBAL AND THEN 1372	C SERVICE ORDER 1	1000								MATRIX TO CASE TRANSFORMATION MATRIX	VEHICLE 10 CASE INMISSION AND TOTAL		SAVE AJ MAIRIA	TEMP 3X3 MATHIX		TABLE OF SUBRUUTINE CALLS	TEMP 3X1 VECTOR	TEMP 3X1 VECTOR				LAST GIMBAL I COMMAND	LAST GIMBAL 4 COMMAND	SIN(LAT) GEODETIC	CUS(LAT) GEODETIC			INIT AND ALIGN DECKS COMMON DATA			G*01*COS(LAI)	G*UT*SIN(LAI)	PHASE ANGLE LAG OF FILIER IN PI RAD	SUM OF DVX+DVY+DVZ ERRORS IN MISEC			NUMBER OF CLUCK CYCLES COUNTING FROM	A NEGATIVE NUMBER	SELECT ALIGN MODE INDEX	MODE C SULUTION INDEX	NUMBER OF COMPUTER CYCLES INTO MODE				SUMMATION (EDVX)			SUMMATION (EDVY*OMEGA*TIME)	
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SOUNCE	SUMMATION (EUV2*COS (THR.))	SUMMALION (EDVZ*SINCIPRI)	O SONTINGO INCO	GL#DELT							GEANS WORLD COMMON VARIABLES DATA AREA																					EARTH ROTATION RATE RAD/SEC	EARTH RATE PI RADISEC	GEODETIC LATITUDE CONSTANT	DELTA TIME = 1/8 SECOND	DOUBLE PRECISION 1/32	=3/32	C001-C004		ACCEL SCALE FACTOR	Y ACCEL SCALE FACTOR MYSEC/PULSE	ACCEL SCALE FACTOR	ACCEL BIAS PULSE	Y ACCEL BIAS PULSE/SEC	Z ACCEL BIAS PULSE/SEC	BII ACCEL MISALIGNMENT	BIZ ACCEL MISALIGNMENT BI3 ACCEL MISALIGNMENT	1
	1.	, A ×		t t	36	VCIX+12	VC1X+24	36	VFIX+12	VF1X+24	U COMMON		,	19-	2	2	2	2	2	2	2	2	2	~	N (	2	v 0	, ,	ZERO		1	1	1	1	1	1	1	 N CAIA.		1	4	1	1	,	1	,		
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	YC1	7 4	VIO	VIC.	XI'UN	XC2X	VC3X	VFIX	VFZX	VF3X	* GE	100000	*	N64	DCSK	NFOUR	NTWO	NONE	ONE	0*1	THREE	FOUR	SIX	SEVEN	FIGHT	N I N	7500	FORE	DFONE		ONHLF	OMGA	OMEG	KGDL	DELT	01032	03032	•		CD01	C002	CD03	CD04	5000	9000	2000	6000	
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DIAGNOSTICS															a																																	

DIAGNOSTICS LINE		DAUR	200	PHOGHAM		250	,		
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200		-		36	5000	200	. 4	GYBO TOROIF 6	DEPENDANE CHASEC+
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12	-			50	CDZB	828	. 1		2
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32			7	J	)30	HSS	4	<u></u>	
2			0	3	C031	HSS	,	SPEED COMP & INDEPENDENT	DYNE-CM
25		-	0	3	CD32	SSE	1	COMP. G INDEPENDE	DYNE-CM
25	-	-	3	3	C033	958	,	COMP.6 INDEPEN	DYNE-CM/M/SEC**2
25			0	3	CD34	888	1	COMP. G INDEPEN	DYNE-CM/M/SEC++2
25		-	,	3	CD35	BSS	4	COMP.6 INDEPEN	DYNE-CM/M/SEC**2
55				33	C036	955	4	COMP.6 INDEPEN	DYNE-CM/M/SEC++2
2			0	10	CD37	888	4	COMP.6 INDEPEN	DYNE-CM/M/SEC++2
56		508	5	Ö	C038	828	,	COMP. G INDEPEN	DYNE-CM/M/SEC++2
2	261 00004		0	5	6603	455	1	SPEED COMP.G INDEPEN DY	DYNE-CM/M/SEC**2
*						EVEN			
26				ö	040	355	4		DYNE-CM/M/SEC**2
2	_			5	C041	455	4	,	DYNE-CM/M/SEC**Z
2				5	2005	822	1	TWO O	DYNE-CM
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DECK NAME = \* ALIGN \*

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	BARO ALITIODE BIAS ALTIMETER / AHRS FLAGS NONE				PDP-11 FLAG	SK.SY.AND S7	MATRIX AL	NMO FLAG				ADDRESS	KETURN ADDRESS LOCATION						NO DETLIBN ADDRESS LOCATION	COSCEANTH MOTION ANGIE (THR.)	10110	REFERENCE DVX M/SEC/CC	REFERENCE DVY M/SEC/CC	740				10	*ALIGN AVERAGE (1-(G KNOWN) / (G ACCEL))				Contraction of the process	COARSE FILIER PHASE ANGLE LAG.	DOCUMENT TAN MANGET ANGLE LAG.	0.00073407 PI RAD	FINE FILTER TIME CONSTANT		COARSE FILTER TIME CONSTANT	2.901440688E-06 EARTH MOVEMENT PI RAD/SEC#DELT		
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C061	C063	<b>6064</b>			DECFLG	BSX	BAJ	BNMO			IIAM	IIDM	W I	E N	IIM3M	IIOM	IIPM	IIAM	AL NOW	CTHE	STHR	RDVX	ROVY	7004	TEMO	TEM2	TEM4	0140	ACM	× × ×	25			E L	PHE		FKF		FKC	40M	TOM	
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LINE	287	288	588	590	291	263			306	223	162	598	568	301				305	307			310	311	315				317	318	320	321	322	333	326	325	326	327		328	359	330	
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8.0	LUI	Sec		SOUARE																SQUARE	SOUARE	SOUARE		SOUARE	SQUARE	SQUARE
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DEC64	MATRIX LSSC(3,3,4)	DEC64	DEC64	DEC64	DEC64	0EC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	0EC64	DEC64	DEC64	DEC64	DEC64	DFC64		DEC64	DEC64	DEC64
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	SOLIN	SOLIN	SOLIN	SOLIN	SOLON	SOLIN	SOLIN	SOLIN	80L • N	SOLIN	SOLIN	SOLIN
	SOUARE	CIZ FINE LEASI SOUAME SOL'N COPTION	C22 FINE LEAST SQUARE SOL'N COPTION	SOUARE	AIZ FINE LEAST SQUARE SOL'N (OPTION	AZZ FINE LEAST SQUARE SOL'N (OPTION 3)	SOUARE	BIZ FINE LEAST SQUARE SOL'N (OPTION	BZZ FINE LEAST SQUARE SOL'N (OPTION	SQUARE	CIZ FINE LEAST SQUARE SOL'N (OPTION	CZZ FINE LEAST SQUARE SOL'N (OPTION 3)
SOUNCE	LEASI	LEASI	LEAST	LEASI	LEASI	LEASI	LEASI	LEAST	LEASI	LEASI	LEAST	LEAST
500	FINE	FINE	FINE	FINE	FINE	FINE	FINE	FINE	FINE	FINE	FINE	FINE
	5	C12	223	A11	A12	AZZ	911	815	828	C11	C12	C22
	DECCA .70807687E-03 CII FINE LEASI SOUARE SOL'N (OPTION 2)	UEC64025555707	1,3055866	.499327546-03 All FINE LEAS! SQUARE SOL'N (OPTION	011816612	.3873955	.55567131E-03 BII FINE LEAST SQUARE SOL'N (OPTION	012699395	,3869516	.49904191E-03 CII FINE LEASI SQUARE SOL'N (OPTION	011798001	.3866749
	06064	UEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64	DEC64
PROGRAM	F5C042DC 385CE33F	2 2357646D 609752E6	2 19462220 40034E88	2 E898FA72 384172A6	2 8022448A 801F32C4	2 FH1E18EF 3FE32CS9	2 35220F36 3948053C	2 3978F286 BU17F770	2 93228713 3Ft30F42	2 5095C856 38416911	2 717F9586 BU1F59CC	2 51AF1F3C 3FE2F020
27	~	2	~	~	~	2	~		~	N	2	~
DADRES	120	124	128	132	136	140	144	148	152	156	160	164
ADRES	000078	357 0007C	358 00080	359 00084	360 00088	361 000BC	362 00090	363 00094	364 00098	360000 596	366 000A0	367 00044
LINE	356	357	358	328	360	361	362	363	364	365	366	367
DIAGNOSTICS LINE ADRES DADRES LC PROURAM												

VERSION KZOAUSUS	50503	DEC	DECK NAME = * ALIGN *	T =	LIGN *					PAGE
DIAGNOSTICS LINE			ADRES DADRES LC	CC	РКОСКАМ				SOUNCE	
						ins .	S EXECUT.	SUB EXECUTIVE FOR ALIGNMENT	MENT	
							ALIGN.	THIS ROUTINE IS ENTERED E IN ALIGN. IT CYCLES THROU SECOND COMPUTATION CYCLE.	HIS ROUTINE IS ENTERED EVERY 1/32 SECOND WHEN THE SYSTEM IS IN ALIGN. IT CYCLES THROUGH FOUR BRANCHES TO PROVIDE A 1/8 SECOND COMPUTATION CYCLE.	
							THE SUB-EXEZERO, SO TI	EC PROVIDES A TAT SYNCHONIZ JPON FIRST EN	THE SUB-EXEC PROVIDES AN ALIGN BYPASS.WHEN NSCH IS LESS THAN ZEHO. SO THAT SYNCHONIZATION TO THE 178 SECOND CYCLE MAY BE INITIATED UPON FIRST ENTRY TO ALIGN AND MAINTAINED UPON RE-ENTRY FROM NAV.	
	370						EVEN	IIA		
α	371	00000	158	~ ~	14000000 IIA	11A 11A1	LDA	IIAM ZEHO		
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	386	-	196	No	5400002A		LOB	NCCU		
	388	00000	200	u N	30000020		STA	NCCU+2		
	389		202	No	7C00002A		STB	NCCO		
	391	OUOCE	502	v	14000004 44000000A		ADO	ONE	NCCD=NCCD+1	
	392	00000	208	~ ^	30000024		STA	NCCD		
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	100	00000	224	vn	64040146	***	25	III		
	401		556	2	14000054		LOA	NCCD		
CENEDATED	705	000E4	228	~	6320		7	LIASA		
GENERALEN	403			2	1400		LDA	SAMI		
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	404	SOUDEE		2	00000000		PTE	IIA4C		

SOURCE

DECK NAME = \* ALIGN \*

SOURCE	S FILTER)	THIS ROUTINE CALCULATES THE FILTEMED VALUES OF THE DELTA V'S. WHICH ARE USED IN MODE C ALIGN. BOTH THE FINE AND COARSE FILTERS ARE INITIALIZED IN MODE A ALIGN AND ARE COMPUTED DURING MODE B ALIGN IN ORDER TO ALLOW THEM TO SETTLE, ONCE THE COARSE FILTER IS NO LONGER USED, IT IS NO LONGER COMPUTED.		INITIALIZE POINTER		DVX (1) -VF (M) X LEJ . J.K 1. M=1.2.3	FKF + (DVX (L) - VF 1 (M) X)	VF (M) X=VF (M) X+FKF* (DVX (L) -VF (M) X)		SECULATION TO THE SECULATION OF THE SECURE OF THE SECURATION OF THE SECURE OF THE SE		(XKB)=I I=2.3	(xR9)=I-1	(A+B)=VF(I-1)X		VF (I-I) X-VF (I) X		VF (1) X=VF (1) X+FKF * (VF (I-1) X-VF (1) X)		INCREMENT POINTER FOR Y.Z	A LOTAN TO COMP.	CHECK FOR END OF MAIRIA					CHECK FUR NMO . GE		INITIALIZE POINTER			DVX(L)-VC(M)X	X			DECREMENT POINTER		(XR8)=I I=2+3
۲ 110	SUBROUTINE LPF (LOW PASS FILTER)	TINE CALCULATES E USED IN MODE ( 1ALIZED IN MODE ( ORDER TO ALLOW ( NGER USED, IT IS	MOII	5.10.M	OVXI.5	DVXI-2.5	MULFU	VF1X-2.5	VF1X.5	VF1X-2.5	11011	8.12.M	M.0.6	VF1X+2+9	VF1X,9	VF1X•8	S S S S S S S S S S S S S S S S S S S	VETX+2-8	VFIX.8	W. 1.6	8,4,M	8,34,M	1103	11054	NMO	SEVEN	1107		M.01.10	DVXI.5			MULFU					8.12.M
ENTRY	BROUTI	IIS ROU IICH AR IE INIT IGN IN	4 2	10X	LOA	660	35	AFD	STA	STB	NE I	LDX	LUX	LDA	LDB	SFD	200	STA	STB	IM	I ME	15	096	3	LOA	SBU	90		LOX	LOA	LDB	SFD	55	O TA	T T	N	160	LDX
		I A A K I	QII	1011	IIDIA							1102		11D2A											1103				1104	I I D4A								1105
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DEC			90100	00108	00100	0010E	00110	00114	00116	00118	0011A	00116	00150	00122	00124	00156	00128	0012A	00120	00130	00132	00134	00136	00138	0013A		0013E		00140	00144		00148			0014E	00100		00156
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470 00156 354 2 30400066 5TB VCIX-8 471 00156 356 2 30400066 5TB VCIX-8 472 00156 356 2 50400066 1MP 844-M 473 00156 356 2 5040006 1MP 844-M 474 00156 356 2 50430022 1DC 1105 1105 1105 475 00156 356 2 50430022 1DC 1105 1105 1105 1105 475 00170 350 2 1400002C 1106 10A NMU 475 00170 370 2 1400002C 1106 10A NMU 477 00177 00177 2 5030		468	77	356	v	000000000000000000000000000000000000000		NEO.	VC1X.R	
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471 00166 358 2 7C400066 1919 9.44.M 472 00168 360 2 5C420004 1MP 8.44.M 473 0016C 364 2 24430022 10C 8.34.M 473 0016E 366 2 6C420004 1MP 8.44.M 476 00170 366 2 604300172 JU 1105A 476 00170 366 2 604300172 JU 1105A 477 00172 370 2 1400002C 1106 LUA NWU 478 00174 372 2 6400010 LUX Silu.M 481 00178 376 2 5C240001 LUX Silu.M 481 00178 376 2 5C240001 LUX Silu.M 482 00176 380 2 56800007 LUX Silu.M 484 00180 384 2 56800007 LUA Silu.M 485 00182 386 2 66280000 SIA DVXI-2+5 486 00184 389 2 5400000 SIA DVXI-2+5 487 00186 399 2 14000002 LUB PHC-2 489 0018C 396 2 5600001 SIA DVXI-2+5 490 0018C 396 2 56000000 SIA DVXI-2+5 491 0018E 399 2 14000000 SIA DVXI-2+5 492 00190 400 2 5C240004 LUD VIX-2+5 493 00192 406 2 56200040 LUD VIX-2+5 494 00194 410 2 5C240004 LUD VIX-2+5 495 00196 410 2 5C240004 LUD VIX-2+5 496 00198 410 2 5C240004 LUD VIX-2+5 497 00194 410 2 5C240004 LUD PHF-2 501 001A2 4114 2 3000016 SIA DVXI-2+5 502 001A2 4114 2 3000016 SIA PHA+2 503 001A2 4114 2 3000016 SIA PHA+2 503 001A2 4114 2 3000016 SIA DPH 504 001A2 4114 2 3000016 SIA DPH 505 001A2 4004 4006 5 3000016 SIA DPH 505 001A2 4004 4006 5 3000016 SIA DPH 505 001A2 4004 4006 5 3000016 SIA DPH 505 001A2 4006 5 3000016		470	-	356	2	30400088		100	25.212	
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483 0017E 382 2 3E800000 STA DVXI-5 484 00180 384 2 7E80FFF STA DVXI-2+5 484 00180 384 2 7E80FFF STA DVXI-2+5 484 00180 384 2 7E80FFF STA DVXI-2+5 485 00182 386 2 64300174 JGU IID6A 486 00188 390 2 14000002 LDB PHC+2 489 00180 394 2 50000014 STA PHA+2 490 0018C 396 2 7C000014 JU IID8 491 0018C 396 2 7C000014 JU IID8 492 00190 400 2 5C2A000A IID7A LDB VF3A-2+5 494 0019C 406 2 5C2A000A IID7A LDB VF3A-2+5 495 0019C 406 2 5C80004 JGU IID7A 498 0019C 412 2 6430019C LDB PHF+2 499 0019C 412 2 6430019C LDB PHF+2 501 001AC 416 2 50000004 LDB PHF+2 501 001AC 416 2 50000004 STA IID8 HA+2 502 001AC 416 2 50000004 IID8 ATA IID8 ATA IID8 ATA IID8		482			2	56800070		FDB	VC3X-2.5	
484 00180 384 2 7E80FFF STB DVAI-2-5 484 00180 384 2 7E80FFF STB DVAI-2-5 485 00184 386 2 6c280004 100 5 444 00184 386 2 6c280004 100 100 PHC-2 488 00188 392 2 5c000010 LDB PHC-2 488 00188 392 2 5c000010 STA PHA-2 490 00184 394 2 5c000010 STA PHA-2 490 00186 394 2 6c000010 STA PHA-2 490 00186 399 2 6c000010 STB PHA-2 492 00196 406 2 5c280004 ID7 LDB VF3X-5 495 00196 406 2 5c80004 ID7 LDB VF3X-5 495 00196 406 2 5c80004 ID7 LDB VF3X-5 496 00196 406 2 5c80004 ID7 LDB VF3X-5 496 00196 406 2 5c80004 ID7 LDB VF3X-5 496 00196 410 2 5c800004 ID7 PHF-2 501 001A2 418 2 5c000016 STA PHA-2 501 001A2 418 2 5c000016 STA IDM STA		7.13			10	3E800000		STA	DVXI.5	DVX(I)=VC(3)X
485 00182 386 2 6280004 100 5.4.74 486 00184 389 2 64300174 100 11064 486 00186 390 2 14000002 LDB PHC-2 488 00188 392 2 5400000 LDB PHC-2 489 00184 394 2 3000019 STA PHA+2 490 00184 394 2 3000019 STA PHA+2 490 00186 396 2 7000019 STA PHA+2 491 00186 396 2 7000019 STA PHA+2 492 00190 400 2 50240004 1107 LDA VF3X-5 494 00190 400 2 50240004 1107 LDB VF3X-5 495 00190 400 2 50800040 STA DVXI-2+5 496 00190 400 2 50800040 STA DVXI-2+5 496 00190 412 2 64300190 LDB PHF+2 499 00196 412 2 64300190 LDB PHF+2 501 001A2 418 2 30000104 STA PHA+2 501 001A2 418 2 30000104 STA PHA+2 502 001A4 420 2 76000014 STA PHA+2 503 001A2 418 2 30000104 STA PHA+3 503 001A2 418 2 30000104 STA PHA+3		707						STB	DVXI-2.5	
486 00184 389 2 64300174 JGU IID6A 4486 00186 399 2 14000002 LDB PHC+2 489 00188 394 2 54000000 LDB PHC+2 489 00188 394 2 56000016 STA PHA+2 490 0018C 396 2 76000114 JU IID8 PHA+2 491 0018E 394 2 6010014 JU IID8 492 00190 400 2 56200004 IID7A LDB VF3A-2-5 494 00196 406 2 56800000 IID7A LDB VF3A-2-5 495 00196 406 2 56800000 STA DVXI-3-5 496 00198 408 2 56800000 STA DVXI-3-5 496 00198 419 2 64300192 LDB PHF+2 499 00196 412 2 64300192 LDB PHF+2 501 001A2 418 2 30000000 IID8 PHF+2 501 001A2 418 2 30000000 IID8 HP STA IID8 HP IID8		100						NEI	5,4,M	
487 00184 390 2 14000002 LDB PHC-2 488 00188 392 2 54000001 LDB PHC-2 489 00188 394 2 50000016 STB PHA-2 489 00186 394 2 50000016 STB PHA-2 491 0018E 394 2 7000016 STB PHA-2 492 00190 400 2 50200016 STB PHA-2 493 00192 406 2 56800004 ID7 LDA VF3x-2 494 00194 406 2 56800004 ID7 LDB VF3x-2 495 00196 406 2 56800004 ID7 LDB VF3x-2 496 00196 406 2 56800004 ID7 LDB PHF-2 497 00198 410 2 50200004 ID7 STA PHA-2 501 001A0 416 2 54000004 ID8 PHF-2 501 001A0 416 2 54000004 ID8 PHF-2 501 001A0 416 2 54000004 ID8 PHF-2 502 001A4 420 2 76000016 STA ID8 502 001A4 420 2 76000014 STA ID9		101						161	11064	
487 00186 349 2 14000000 LDB PHC 489 00188 392 2 54000000 LDB PHC 489 0018C 396 2 7000014 JU IDDB PHC 490 0018C 396 2 7000014 JU IDDB PHC 491 0018C 396 2 7000014 JU IDDB PHC 492 00190 400 2 50800002 ID7A LDA VF3x5 494 0019C 406 2 56800002 ID7A LDB VF3x5 495 00196 406 2 56800000 LDB VF3x5 495 00196 406 2 56800000 LDB VF3x5 496 00196 419 2 14000000 LDB PHF 72 501 001A2 419 2 14000000 LDB PHF 73 1000010 416 2 54000000 STA IDM HT 74 110M 110M 110M 110M 110M 110M 110M 110		480						401	C+ C I	
488 00188 392 2 54000000 LUB PH4-2 489 00184 394 2 57000016 5TA PH4-2 490 00186 399 2 60180 LUD 5TB PH4 491 0018E 399 2 60180 LUD 5TB PH4 492 00190 400 2 50240004 LID7 LUB VF34-2 493 00192 406 2 56800042 LID7A LUB VF34-2 495 00199 406 2 56800040 LUB VF34-2 495 00199 406 2 56800040 LUB VF34-2 496 00199 410 2 56800040 LUB PHF-2 499 0019E 419 2 14000004 LUB PHF-2 501 001A0 416 2 54000004 LUB PHF-2 501 001A0 416 2 54000016 LUB PHF-2		181						100		
469 0018A 394 2 3000016 5TA PHA+C 490 0018C 396 2 60104 5TB PHA+C 491 0018E 399 2 60106 1107 1108 492 00190 400 2 5C2A000A 1107 LDX 5.10·M 493 00192 406 2 168000A2 1107A LDB VF3X-5 494 00194 406 2 568000A0 1107 LDB VF3X-5 495 00196 406 2 568000A0 5TB DVXI-5 495 00196 406 2 568000A0 5TB DVXI-5 495 00196 406 2 568000A0 1107A LDB VF1X-2 496 00196 410 2 6680000 1107A 1107A 501 001A2 418 2 30000016 5TA PHF+2 501 001A2 418 2 30000016 5TA PHF+2 502 001A4 420 2 76000017 1108 STA I10M		488			2	24000000		507	717	2H0-4H0
490 0018C 396 2 7C000014 5TB PHA 491 0018E 398 2 0018		489			10	30000016		STA	PHA+C	THAME
491 0018E 398 2 6018  492 00190 400 2 5C240004 11D7 LDX 5:10:M 493 00192 406 2 5C840004 11D7 LDA VF3X-2:5 494 00194 406 2 56800004 11D7 LDB VF3X-2:5 495 00196 406 2 56800000 5TA DVXI:2:5 496 00198 410 2 60280000 5TA DVXI:2:5 498 00196 410 2 60280000 11D7 A 499 00196 419 2 14000000 11D8 PHF:2 501 001A0 416 2 54000000 5TA PHF:2		064				2 76000014		STB	AHA	
492 00190 400 2 5C24000A 11D7 LOX 5:10+M 493 00192 402 2 168000A2 11D7A LDA VF3X:5 494 00194 404 2 568000A0 11D7 LDB VF3X:5 495 00196 406 2 3E800000 5TA DVXI:5 495 00196 406 2 3E800000 5TA DVXI:5 497 00198 408 2 7E80FFF  1MN 5:4:M 498 0019C 412 2 64300192 LDB PHF:2 499 0019C 412 2 64300192 LDB PHF:2 500 001AQ 416 2 54000004 LDB PHF 501 001A2 418 2 3C000016 5TA PHA-2 502 001A4 420 2 7C000014 STA PHA-2		165				5 6018		20	IIDB	
492 00190 400 2 5C24000A 1107 LDX 5:10*** 494 00192 402 2 168000A2 1107A LDB VF3X-5 495 00196 406 2 568000A0 STA DVXI-\$ 495 00196 406 2 3E800000 STA DVXI-\$ 496 00198 408 2 7E80FFF FF IMN 5:4*** 497 00198 412 2 64300196 LDB PHF*-2 499 0019F 412 2 64300196 LDB PHF*-2 501 001A2 419 2 3C0000106 LDB PHF*-2 501 001A2 418 2 3C0000106 STA PHA*-2 502 001A4 420 2 7C000014 STA PHA*-2 503 001A4 420 2 7C000014 STA PHA*-2 503 001A4 420 2 7C000014 STA PHA*-2 504 001A5 418 2 3C000016 STA PHA*-2 505 001A5 418 2 3C000016 STA PHA*-2	RATED					0020				
00192 402 2 168000A2 11D7A LDA VF3X-5 00194 404 2 568000A0 LDB VF3X-7-5 00196 406 2 368000A0 STA DVXI-5 00198 408 2 7E80FFF IMN 5.4+M 00194 410 2 6C280004 JGU IID7A 00195 412 2 64300192 JGU IID7A 00196 414 2 140000004 LDB PHF+2 001A2 418 2 3C000104 STA PHA+2 001A4 420 2 7C000014 STA PHA+2		264				SCZAUODA	1107	rox	5.10.M	
00194 404 2 56800040 LDB VF3A275 00196 406 2 3E800000 STB DVXI.5 00198 410 2 6C280004 IMN 5,4.M 0019C 412 2 64300192 LDB PHF72 0019C 412 2 54300192 LDB PHF72 0010A2 419 2 3C000104 LDB PHF 0010A2 419 2 3C000106 STA PH472 0010A4 420 2 7C000014 STB PH4		64				2 168000A2		LDA	VF3X+5	
00196 406 2 3E800000 STA DVAI-5 00198 408 2 FEBUFFF STA DVAI-2.5 00199 410 2 6E80004 IMN 5-44" 0019C 412 2 64300192 LDB PHF+2 0019E 419 2 14000000 LDB PHF+2 001A2 418 2 3C000010 STA PHF+2 001A4 420 2 7C000014 STA PHA-2		767				2 558000A0		LOB	VF3X-2.5	
00194 408 2 7E80FFF STB DVXI-2.5 00194 410 2 6C280004 IMN 5.4.M 0019C 412 2 64300192 JGU IID7A 0019F 419 2 14000006 LD4 PHF*2 0010A 418 2 3C00010 STA PHA*2 001A4 420 2 7C000016 STA PHA*2		30.				3 SEA00000		STA	DVXI.5	DVX(I)=VF(3)X
00194 410 2 6C280004 IMN 5.4.M 00195 412 2 64300192 JGU IID7A 00196 414 2 14000006 LDA PHF*2 00104 416 2 54000004 LDB PHF 00104 420 2 76000016 STA PHA*2		100				2 7FROFFFF		STB	DVXI-2.5	
0019E 419 2 14000000 LUB PHF+2 0019E 419 2 14000000 LUB PHF+2 001A0 418 2 30000004 STA PHA+2 001A4 420 2 76000016 STA PHA+2		44						ZΣ	5.4.M	
0019C 419 2 14000006 LUA PHF+2 0019C 419 2 14000004 LUB PHF 001A2 418 2 3C000016 STA PHA+2 001A4 420 2 7C000016 STA PHA+A 001A4 420 2 7C000016 STA PHA 001A4 420 2 7C000016		*						161	11074	
0019E 419 2 14000000 LDB PHF 0011A0 416 2 54000000 STA PHF 2 1001A4 420 2 70000016 STA PHA 001A4 420 2 70000016 STA PHA 001A4 420 2 70000018 STA 11DM		44			7	2000000		400	0.4970	
001A0 416 2 54000004 LUB PHF 001A2 418 2 3C00016 STA PHA+2 001A4 420 2 7C000014 STB PHA		64			,	14000000		107	3. 11.0	
00142 418 2 3000016 STA PHA+2 00144 420 2 7000014 STB PHA 00144 220 2 7400017 11DB STA 11DM		200				5 240000004		FOR	111	JHO- FFE
001A4 420 2 7C000014 STB		50				2 30000016		STA	PHA+2	יווייים ווייים וויים וויים וויים ווייים וויים ו
001A6 422 2 74000002 1108 RTA		205				2 7C000014		STB	PHA	
		-						***		

PAGE 13																														41										
	SOURCE	- COMPUTE REFERENCE DELTA VIS RDVX.RDVY.					(NCCU-0.5)	*DI * (NCCU-0.5)			SINCMOT* (NCCU-0.5) - PHA)		COS (WDT * (NCCU-0.5)-PHA)				HDVX = AKIT*CIHR				KOVY=4K1T*STHK			1034-1400	RUVZ=ANZI					JOUY (1) = OF( 10HOVX (1)										SUMMING FOR LEAST STUARES SOLUTION
,	111	PROFILE - CO	MHII	4. WOTOW	NCCU+2	NCCO	ONALF	MULFU	SINCOS	***	3	CTHK+2	CTHY	4.4K11.M	CTHRAC	MILL FLU	ADVX+2	ROVA	STAK+2	STHK	MULF D	RDVY	AK2T+2	AKZT	KDV2+2	4.DELT.M	5.10.M	RDVX.5	KDVX-2.5	AULT D	RDVX-2.5	5.4.N	IIHZA	SAMI	<b>-</b> 0	11130-8	IIJ	111	NII.	OR LEASI SUC
	ENTRY	REFERENCE AND RDV2.	AT a			LOB	SFU	25	Sr.U	JAU	210	STA	STR		LDA	5.5	STA	STB	LDA	207	JS 514	STB	LUA	LUB	STA	LOX	LDX		LDH	250	A L	ZEI			SLL	LXA			PTR	SUMMING
			II.	1111										IIHZ														IIHZA						11143			I I H 3 A			•
DECK NAME=*ALIGN *	PROGRAM		40000000	50220010	1400002C	5400002A	02000000	000000009	00000014	6004	0700	300000	7000016	SC22000C	14000018	24000010	30000020	7C00001E	14000010	5400001A	64040000	7000002	14000012	24000010	30000028	56220030	SCZAGOOA	1680001E	5680001C	64040000	3E80001E	6C2B0004	643001E2	14000056	0841	0900	00000029E	00000284	000001FC	
1E= 0 A	2 10			2					0 1	200		u 1	9			v 0				2 2	70	× 0		2 2	4 4	0 0		2 2	4	90	200	200	4		200	0 0	00	10	9	
NAN	AURE		454	454	458	430	432	43	436	440		711	446	448	450	456	456	458	460	794	494	1 100	470	472	474	173	480	482	484	486	1000	435	161	446	665	664	200	504	506	
DEC	ADRES DADRES LC		00148	00144	001AC	ODIAE	00180	00182	00184	00168		49100	0018E	00100	20100	00104	00108		001CC	ODICE		00100			C01DA						00158	00160	OOIEE				00154			
503	505 505 506		507	508	505	510	511	515	513	515		210	518	519	520	125	523	524	525	975	527	220	530	531	532	534	535	536	537	538	539	541	545	543	244	240	240	242	546	
VERSION K2040503	DIAGNOSTICS LINE 505 506										GENERATED																													

	'n	ī

	SOURCE	2 N	CLEAR 30m				7 1=1.3		(UVX**2+DVY**2+DVZ**2)					CODT (DVX ** 2+DVX ** 2+DV2 ** 2)					VTC/SGRT (DVX**2+DVY**2+DVZ**2)						DPT0*0VX(I) 1=1,3	OPTO*DVX(I) -KDVX(I)		TEMO(I)=OPTO*UVX(I)-RDVX(I)					SRA= (SRA+1.0-UPTO)					YA1=YA1+TEMO					STHROTEMO	0701000110000	TAC=1AC+31HK+1E-10			STHR*TEM4	
		ZERO	TEM + C	5,10,м	4.0VX-2.5.M	0VX•5	C. 2 - 7 A	TEM	TEM+2	TEM	M. 1. 1	5,4,M	IIVI	DECSU	TEM	4. TEM.M	VTC+2	VIC	DVFD	0PT0+2	0000	# 01-10.4	E STANO	0vx-2.5	MULFO	RDVX-2,5	TEM0.5	TEM0-2.5	5,4,M	IINIB	FONE	ZEKU DDIO	SRA	SRA+2	SHA	TEM0+2	JEMO	× 14.	741	4.STHR.M	TEM0+2	TEMO	MULFD	YAZ	YAC+C	TEMAL	TEM4	MULFO	YCZ
		LUA	A T S	LOX	LDX	VO .	100	AFD.	STA	STB	IMN	ZwI	760	35	2 1	X	AG I	108	35	STA	STB	LUX	LD.	108	15	SFD	STA	STB	Z	760	LDA	108	AFD	STA	STB	LOA	103	STA	STR	LOX	LUA	100	Sr	AFD	STA	200	Loe	JS	AFD
		INI				IINIA																	CLAST	TIME																									
LIGN .	PROGRAM		30000020	SCZAOOOA			56800030	000000000000000000000000000000000000000	30000036	7C00002A	6C230004	<b>60230004</b>	64300206	64040000	30000050	500000	14000064	54000062	64040000	30000036	7C00003A	5C22003A	SCZAGOOA	56800035	000000000000000000000000000000000000000	DE84001C	3E80002E	7E80002C	6C2B0004	6430022E	1400001E	54000010	90000034	3000026	7C000024	14000030	5400002E	9000000	300004	SC22001A	14000030	5400002E	64040000	9C00004A	30000040	1000004A	54000036	64040000	9C000024
E=+A		~	20				V	20							2	00		10	2	2	~	2	2	00	10	,,		2	2	2	7 +	20	00	2	2 4	2 9	2	200	ייט	9	2	2 0	2 2	4 5	9	0	20	7 7	9
DECK NAME=*ALIGN	DADRES	508	510	514	516	518	520	522	526	528	530	532	534	536	538	010	544	546	548	920	555	554	556	550	245	564	566	568	570	572	574	576	0 0 0	582	584	586	588	290		296	598						610	9	616
DE	AORES		DOIFE	00200	00200	90200	00200	00204	20200	00210	00212	00214	00216	00218	00214	21200	37300	00222	00224	00226	00228	0022A	0022C	00220	00000	00234	00236	00238	0023A	0023C	0023E	00540	24200	00246	00248	00244	0024C	0024E	00200	00224	00256	00258	0025A	0025C	0025E	00500	29200	00000	
503	INF		552	554	555	256	257	258	100	561	562	563	564	265	266	200	000	570	571	572	573	214	575	5/6	270	270	280	581	582	583	584	585	280	588	589	290	165	265	243	545	296	597	548	868	900	601	209	400	605
VERSION K20A0503	DIAGNOSTICS																																																

VERSION K2040503 DECK NAME=\*ALIGN \*

SOURCE	YC2=YC2+STHK*IEM4					TEM4*CTHR	YC1=YC1+TEM4*CTHR					YB1=YB1+1EM2					NCCU*DELT		TEM2* (NCCU*DELT)		TEM2* (NCCU*DELT) *OMGA	YBZ=YBZ+TEMZ* (NCCU*DELI) *UMGA				SUMMING FOR FARTH POLAR AXIS SOLUTION			VAXI(I)=VAXI(I)+DVAI(I)					VAX(I)=VAX(I)+DVX(I)							L SOLUTION	TOTAL TOO COUNTER	INITIALIZE LOUP COUNIER		0.000 CT   DOWN CT	UVA(1) - KUVA(1) + DVX (1) - KUVX (1)	VAA LI SAANII SOONII SO		DECREMENT COUNTER FOR NEXT ELEMENT
	YC2+2	xC2	M.CTHE.M	TEMAL	TEM4	MULFU	YC1	YC1+2	YC1	TEM2+2	TEMZ	191	761.5	781 7.050 7.80	4.056.1.0	NCCO	MULFU	4.TEMZ.M	MULFD	4.0MGA.M	MULFD	Y82	Y62+2	YBZ	ITTW	OR FARTH POLA		•	VECADO	0	1777	0441	VAXI	VECADO	6	,	***	× 4×	×11.		SUMMING FOR LOCAL LEVEL SOLUTION	•	5.10·m	DVX.5	0.7-VA0	KOVA-Z+S	VAX-2.5	Z-X-Z-X-Z	5.4.4
	STA	573	****		108	JS	AFD	STA	STB	LDA	LUB	AFU	STA	20.0	, C.	200	JS	LUX	Sr	LUX	35	AFD	STA	STB	4	SUMMING F		EGO	SC	240	oto	2	1	SC	250		2	1 0	1		SUMMING F	003	LUX	407	609	SFO	AFU	1 1	N N N
																											•	117	1171												•	111		1111					
20000	Chooons	0500000	200000	0000000	54000036	000000000000000000000000000000000000000	9000006	30000058	70000056	14000034	24000035	9C00004E	30000050	7C00004E	50550030	14000000	200000000000000000000000000000000000000	50220032	000000099	SC220024	000000009	90000009	30000054	70000052	10000001				64040000 IIJI	8009	00/0	00000000	00000000	64040000	8000	0010	81000000	2000000	740000047				SCZAUOOA	1680003E	56800030	DEROUOIC	9E800016	35 8000 18	6C280004
5					un				2	N	2	~	~	~	V	v 1	un	N	2	2	2	2	2	2	~				2			v		2	2		v	u n	va	1						2	0	v 1	v
MADOLE	DAURES FIR	620	020	220	974	628	630	632	634	636	638	049	249	549	949	0 10	659	654	659	658	099	299	499	999	999			670	029	2/9	, ,	174	678	680	589		986	000		200		269	269	150	969	869	200		100
3000	00000	10200	20000	30200	01200	27200	00276	00278	0027A	0027C	0027E	00280	03585	00284	98200	00200	74500	OUZBE	06200	26200	96200	96200	00298	0029A	06290				0029E	00240		00246							00000										00202
	L186	200	100	900	600	2 -	612		419		616	617	618	619	079	179	220	624	579	979	129	628	629	630	631			536	633	534		535	637	538	639		940	140	200	2		544	942	545	140	248	646	650	652
301130000000000000000000000000000000000	UIAGNOSTICS																														GENERATED					GENERATED													

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PAGE

SOURCE

111

JGU

DIAGNOSTICS LINE AUMES DADRES LC PHOGRAM
653 002C4 708 2 64300286
654 002C6 710 2 74000004

DECK NAME=\*ALIGN \* VERSION K2040503

PAGE 17		3																																					
	SOURCE	Z				VAX/AKIT		IEMZ=VAX/AN1 I		VAY/AKIT	TEMO=VAY/AK11		TEM0**2					TEM2**2	(TEM0*2+TEM2**2)	SUKI ( EMU**Z+ IEMZ**Z)					TEMO/SURT (TEMO**2+TEM2**2)				TEM2/SORT (TEM0**2+TEM2**2)				Sx=SY=SZ=0				ACM=U	PHA=0	
	II k	EARTH POLAR AXIS SOLUTION	IIKM	4. AKII.M	VAX	DVFD	TEM2+2	VAY+2	VAY	DVFD	TEMO	4. TEMO.M	MULFU	TEM+2	4.TEMZ.M	TEM2+2	TEMZ	MULFU	TEM	DECSU	TEM+2	4.TEM.M	TEM0+2	TEMU	DVFD	SWIT	TEM2+2	TEMZ	DVFU	7.1.7	ZERU	5.10.M	Sx.5	5.2.M	IIK4A	ACM•Z	200	AHA	IIKM
	EVEN	ARTH POLAF	¥ a	, O.	L08	Sr	STA	LDA	100	15	STR	LOX	Sr	AIN	LOX	LUA	108	Sr		25	ATA	LOX	LDA	407	Sr	100	LOA	607	STA	1 1	LOA	LOX	STA	ZW.	250	STA	AT.	STA	KTA
			11K	1142								11k3																			IIK4		IIK4A						
ALIGN .	PRUGRAM		90000000	3000000	54000018	000000099	30000034	1400001E	5400001C	64040000	7C00002E	SCZZOOZE	00000000	30000020	56220032	140000034	24000035	000000009	9C00002A	000000000	3C00002C	SC22002A	14000030	5400002E	64040000	7000000	14000034	24000035	3000000	70000004	14000010	SCZAUDOA	35800042	6C2B0002	54300312	30000040	30000036	3000014	74000006
40	2		2	vn	וה נו	N	20	v ~	2	~	١, ١	N	N	v	· ~	N	2	2	~	v	vn	1	N	~	2	4	2	2	No	10	N	2	2	N	v	vo	u n	2	2
DECK NAME=*ALIGN *	DRES DADRES LC		712	774	718	720	722	126	728	730	734	736	738	74.0	744	146	148	150	752	104	755	160	762	164	766	770	772	174	778	740	782	784	186	788	100	261	1962	198	800
DE	ADRES		CUZCH	002CA	OOSCE	00200	00202	00500	00208	0020A	002DE	002E0	002E2	000EF	002E8	002EA	DOSEC	OOSEE	002F0		00256		002FA		COSFE	00305	00304	00306	00308	20500	0030E		0	00314		00318		0	00320
503	INE 656 657		656	1000	661	299	669	999	999	199	699	670	671	219	674	675	919	2119	678	610	220	682	683	684	685	2000	688	689	0690	269	663	969	969	969	160	000	7007	701	702
VERSION K20AUS03	DIAGNOSTICS LINE																																						

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VERSION K2040503 DECK NAME=\*ALIGN \*

						VAX(I)/VTB	EM0(1)=VTB*VAX(1)						TEM2*CGDL		SZ=TEM2*CGDL		10000	IEMZ*36UL	SX=TFM2*SGDI			SX=-SX					TEM0**2					Lendard Control	CLEMBER STEMPS	3						INVERT SIGN OF TEM		
						>	ī						-		S		-		5	•		S					=				•	= :	- 0	•						1		
×ΙΙ	LOCAL LEVEL SOLUTION	IIMM	4.VTB.M	VAK.5	VAX-2.5	DVFD	TEM0.5	TEM0-2.5	5.4.M	THINIA	CGD1 +2	2000	MULFU	2.75	25	S60L+2	SGUL	SY 5.2	3. XS	ZERO	ZEHO	SXS	2.45	4. FEMO.M	TEM0+2	TEMO	MULFO	TEM	4. TEM4.M	TEM4+2	TEM4	MOLF	25090	TEMAN	TEM	TEM4+2	IIMZA		25.40	TEM	IIMZB	
EVEN	AL LEVE	AT 9	COX	LOA	108	SC	STA	STB	NW.	090	104	108	35	STA	STB	LDA	907	27	STR	LOA	LUB	SFU	4 1	LOX	LDA	<b>FUB</b>	25	A L	rox	LDA	607	250			STB	LDA	4		LUA	SFD	3	
	, LOC	MII	IwI	IIMIA						4.1	1146																															
			SC22005E 1			000000099	3E80002E	7E80002C	6C2B0004		14000000	24000000	00000000	3C00000C	7000007	400000A	80000000	000000000000000000000000000000000000000	70000042	14000010	5400001C	C0000042	2000044	SCZZUOZE	14000030	5400002E	64040000	7C00002A	50220036	14000038	54000036	000000000000000000000000000000000000000	2000000	3000000	7C00002A	14000038	630A	0020	14000010	UC00002A	9009	0000
			NA		10						v					~	20	40	11	12	2	2	u 0	1 0	2	~	N	00	~	~	~	v	u 0	4	1 ~	2	2		v			
		805	804	808	810	812	814	816	618	920	824	826	828	830	835	834	836	070	245	944	948	840	200	854	958	858	860	964	866	868	879	2/6	1 4 2 4	878	880	885	884		000	840	892	
		00322	00324	0032H	0032A	0032C	0032E	00330	00332	00334	00334	00334	00330	0033E	00340	00342	946	01000	00344	0034C	0034E	00320	20000	00356	95600	0035A	3500	00360	00362	00364	00366	80500	10000	0036F	00370	00372	97500		00375	0037A	0037C	
704			707	703	710	711	712	713	714	115	717	718	719	120	721	722	123	125	126	727	128	129	731	732	733	134		137	738	139	740	100	743	144	745	146	147		2 2		151	
704																																						GENERATED				GENEGATED

19 PAGE

SOURCE	SY=-SIGN(TEM4) +SURT(TEM0**2+TEM4**2)		ACM = 0					
	SY+2	SY	ACMAS	2	ACE	1133		
	STA	STB	104	4 - 0	A I C	250	1	
	11428							
PROGRAM	896 2 5400002A	70000046	1400001C	30000040	3C00003E	96504049	140000008	
O I SHOUND	896 2	2 006	3 206	2 +06	906	806	910 2	
SOCK	00380	00384	00386	0038	0038	0038	0038	
11.10	753	755	756	757	758	159	700	
00.100	DIAGNOSTICS							

DECK NAMES ALIGN .

VERSION KZUADSO3

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										(NCCO)		(noone		
	Sounce						( *Obbancon)			SWT=SIN(WOPP*NCCU)		(USDNOQUE) SOUTE IND		
		5												
	14.5 1.4.5	IIMS COMPUTES SWT AND CWT	I I M3M	M. GGOS.	2.000	000	ULFU	NCOS	1.		CWT+2	17		IMSM
	-	PUTE	-	1	Z	Z	2	S	•	5			٠, ر	-
	ENTRY IIMS EVEN	IIM3 COM	17	LOX	LUA	607	SY	Sr	חאר	2	STA		210	A TA
			IIMB											
	РРОСКАМ		2 00000000 IIM3	50220010	14000020	5400002A	00005059	2 64040000	+009	00/0	90000000	200000	10000002	2 7400000A
	2									0	90	u	V	2
CA NAME	DAURES		912	916	916	918	920	922	924		926			
חב	AURES		06800	26800	00394	96800	HEE 00	A6500	26600	0000	00000	COSAO	00342	774 00344
50501	LINE 762		764	165	166	767	768	100	170	į		711	773	174
VERSION AZUAUSUS UECH MAME-TALLOT	DIAGNUSTICS LINE AURES DADRES LC PROGRAM 762 763									GENERATED				

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SOUNCE 110	LEAST SQUAKES SOLUTION	110м	COMPUTE UFFSET FOR MATRIX LSSC	TRSC	TEX		36.M MULTIPLY MCSI BY OFFSET CONSTANT	TOTAL AN INTEGER MILITIPLE	TEM	8 (XHB)=AUDHESS OF LSSC(MCSI)	XA, KB, KC, AND YA, YB, YC ARE IN CONTIGUOUS LOCATIONS OF CORE	200	3.XA.M		4.0.5.M (XR4)=ADDRESS OF YA(1)	***	MULFU A(1.1)*YA(1)	•		4.4.5.M (XR4)=ADDRESS OF YA(2)	x x x	MULFU A(1,2) *YA(2)		2.3 XA(1)=A(1,1)*YA(1)+A(1,2)*YA(2)	5.00	4.0.5.M (XR4)=AUDRESS OF YA(1)	6.9		MULTI) A(Z.1) "TA(1)8A(1.2)=A(Z.1)		4.4.5.M (XR4) = ADDRESS OF YA(2)	10.8	60.00		4.3
EVEN	LEAST SUU	O PTR	COMPUTE U	1101 LAE	STA	LDA	MUL	CAB	ADO	LXA	XA. KB. KC.	*0.	LUX	COX	1101A LUX	LUA	SY	STA	STB	rox	LUA	SC	AFU	STA	616	207	LUA	H07	25	ST.	LUX	104	607	200	242
ε A	• •				2A	58	54	-	70			0000	2¢	95		200	000		1980	100	90	00		3981	0020	000	90	50	00	7987	10	40	900	00	2000
РКОСКАМ		2 00000000 2		34000018	3C00002A	14000058	04020024	0000	A40000A	0000		200000	5C1 4002E	SCZAUG46	SEA20000	20000000	000000000000000000000000000000000000000	3961	13	5EA20004	144000000	000000009	0866	39	004	SEA20000	4400000	24400004	2000	79	SE 420004	40000077	54400008	000000000000000000000000000000000000000	3066
		V					_	v		2			10	7		v	1 ~	2	~	~	va	N	N	vo		~	2	2	vo	. ~	N	2	20	40	40
DADRES		934		936	938	046	245	744	946	876		050	955	426	956	428	962	964	965	996	968	972	416	975	110	978	086	985	100	947	988	066	266	166	000
ADRES DADRES LC		778 003A6		00348	00344	003AC	003AE	00380	00382	00384		AHE 00	00348	00384	00390	0036E	00365	00364	00305	90000	003CB	003CC	003CE	003CF	00200	00302	00304	00306	80500 00300	003DH	0030C	0030E	00350	22500	43500
176 776		118		179	780	781	785	207	185	786		747	788	189	190	100	793	161	195	196	100	199	900	100	200	803	408	405	000	200	808	810	911	910	210
DIAGNOSTICS												GENERALED													GENERATED										

DIAGNOSTICS GENERATED	_			2 .	0700			;	SOUNCE
	816	003E8	1000	N	6C1A0008		IMP	3,8,M	
	200	003EA	7001	v	6CCA0008		1 2	2.00	
	0 0	00350	1000	0 0	20002429		2 2	W.1.0	
	200	00350	1000	11	643003BC		160	11014	
	821	003F2	1010	~	SC22000C	1102	LDX	4.AKIT,M	
	822	003F4	1012	~	14000044		LDA	XC+6	
	823	003F6	1014	2	240000045		LOB	XC+4	
	954	003F8	1016	2	64040000		SC	DVFD	XC(2)/AKIT
	955	003FA	1018	2	30000044		STA	Sx+2	
	356		1050	V	10000042		STB	SX	SX=XC(Z)/AKI
	827	003FE	1022	20	14000010		LOA	ZERO	
	000		1004	10	2100000		200	X 4 4 4	XA(2)==XA(2)
	730		1028	u ^	6404000		25	OVED	-XA(2)/AK1T
	7		1030	1 ~	3000000		STA	57.5	
	200	200	1030	10	200000		1	7.75	57=-XA(2)/AKII
	133		1034	1 0	100000		40.	25.00	200
	436		1036	0 1	2400001		202	25.80	
	435	0040E	1038	10	DC00003E		SFD	×C	xC(1)=-xC(1)
	836	00410	1040	2	000000000		75	DVFU	-XC(1) /AK1T
	837	00412	1042	N	30000048		STA	57+2	
	838		1044	2	7C000046		STB	SY	SY=-XC(1)/AK11
	839		1046	N	SCZAGOOA		LUX	5.10.M	
	940		1048	2	50220014		LDX	4.0FB.M	
	841	0041A	1050	2	16800042	1102A	LDA	Sx . 5	
	845	00410	1052	2	56800040		603	SX-Z+2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	200	21+00	1001	0 0	000000000000000000000000000000000000000		27.0	MULT 0	0.00.40.40
	ייי ליי		1050	0 0	75 800042		A TA	5.4.7.8	S7=57**
	100		1060	11	6C2H0004		NW	S.4.M	200 70-70
	H47		1062	1	64300414		1911	11024	
	848	-	1064	10	5C220024		) o	4.NCCU.M	
	849		1066	1	14000026		LDA	SRA+2	
	950	100	1068	2	54000054		108	SRA	
	851		1070	2	64040000		35	DVFD	SMA/NCCU
	852	00430	1072	~	30000040		STA	ACM+2	
	953	100	1074	~	7C00003E		STB	ACM	ACM=SRA/NCCU
	854		1076	2	SC22000C		LDX	4.CGDL.M	
	955		1078	~	1400004C		LOA	2.75	
	926		1080	v	5400004A		108	25	
	857	-	1082	2	64040000		35	MULFD	32*C60L
	828		1084	N	3000030		STA	TEM0+2	
	828	0043E	1086	N	7C00002E		STB	TEMO	
	860	00440	1088	~	50220062		LDX	4.VTC.M	
	861	24400	1090	N	14000038		LDA	X8.2	
	862	55500	1092	2	54000036		108	×8	
	863	94400	1094	2	64040000		35	OVED	X8(1)/v1
	864	84400	1096	2	30000034		STA	TEM2+2	
	965	0044A	1098	N	70000032		STB	TEM2	
	966	24400	1100	N	SC220008		rox	4. SGDL.M	
	199	34400	1102	~	140000041		TO T	5××5	
	1			1	1				

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	SOURCE					SZ*C6DL-x8(1)/vT	52*C6DL-XB(1)/VT-SX*S6DL			Seul * (SZ*CGDL-XB(1)/VI-SX*SGDL)		SX=SX+SGDL*(SZ*CGDL-XB(1)/VT-SX*SGDL)					CGDL * (SZ*CGDL-XB(1)/VI-SX*SGDL)						SZ=SZ~CGDL*(SZ*CGDL-XH(1)/VI-SX*SGDL)				
		TEM4+2	TEM4	TEMO+2	TEMO	TEM2	TEM4	TEM0+2	TEMO	MULFD	SX	SX+2	SX	4.C60L.M	TEM0+2	TEMO	MULFD	TEMU+2	TEM0	2.75	75	TEMO	2+75	75	IIM3	IIOM	
		STA	STB	LDA	FOR	SFD	SFU	STA	STB	Sr	AFD	STA	STB	LDX	LUA	108	Sr	STA	STB	1.04	LUB	SFU	STA	STB	Sr	RTA	
DECK NAME = * ALIGN *	ADRES DADRES LC PROGRAM		1110 2	00458 1112 2 14000030	1114 2	0045C 1116 2 DC000032	1118 2	2	1122 2	~		2	1130 2	1132 2	1134 2		1138 2	1140 2	2	1144 2				~	1154 2		2011
VERSION K20A0503	OTAGNOSTICS LINE			872 0																				-			

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SOUNCE	COMPUTE VELTA A MATRIX AND DELTA AJ MATRIX (SUBROUTINES COM AND CDAM)							SX(I)**2 I=1+3					(1.0-SX(I)**2)	SURT(1.0-5X(I)**2)		TEM0=SQRT(1.0-SX(I)**2)				
	COMPUTE VELTA A MATRIX AND (SUBROUTINES COM AND CDAM)	ИІР	MdII	5,10,4	4.5X-2.5.M	Sx*S	Sx-2,5	MULFU	TEM0.5	TEM0-2,5	FONE	ZERU	TEM0-2.5	DECSO	TEM0.5	TEM0-2.5	5.4.M	IIPIA	5, TM, M	ZERO
	SUBROUTING	EVEN	PTR	LDX	LOX	LUA	108	SC	STA	STB	LDA	108	SFO	Sr	STA	818	NWI	JGU	LUX	LDA
			IIP	IIPI	IIPIA														IIP2	
PHOCHAM			00000000	SCZAUODA	SEA20040	16800042	56800040	00005059	3E60002E	7E80002C	1400001E	5400001C	DEBOOOSC	000000009	3E80002E	7E80002C	6C2B0004	643004BA	SCZA012C	2 1400001C
CC			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
DADRES			1158	1160	1162	1164	1166	1168	1170	1172	1174	1176	1178	1180	1182	1184	1186	1188	1190	1192
ADRES			00486		00484															
LINE		956	868	668	006	901	206	903	406	905	906	206	806	606	910	911	912	913	416	915
DIAGNOSTICS LINE ADRES DADRES LC PROGRAM																				

DECK NAME=\*ALIGN \*

VERSION K2040503

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		Sx(I)**2 I=1,3					(1.0-Sx(I)**2)	SURT (1.0-5X(1)**2)		TEM0=SURT(1.0-5X(I) **2)					TM(1,3)=TM(2,3)=TM(3,1)=TM(3,2)=0										TM(3,3)=1.0					TM(1.1) = TM(2.2) = TEM4				TM(1.2)=52				25==28		TM(2,1)=-5Z			TM1 (1,2) = TM1 (2,1) = TM1 (3,2) = TM1 (2,3) = 0	
S4.5	Sx-2.5	MULFU	TEM0.5	TEM0-2.5	FONE	ZERO	TEM0-2.5	DECSO	TEM0.5	TEM0-2.5	5.4.M	IIPIA	5. TM.M	ZERU	54,5	56,5	28.5	30.5	8.5	10.5	50.5	22.5	FONE	32.5	34.5	TEM4+2	TEM4	5.5	5.0	18.5	16,5	2+75	75	14.5	12.5	ZEHO	ZERO	25	6.5	4.5	S.TMI.M	ZERO	12.5	14.5
LUA	108	Sc	STA	818	LDA	108	SFO	25	STA	818	NE	760	LUX	LDA	STA	STA	STA	STA	STA	STA	STA	STA	L08	STA	STB	LOA	108	STA	STB	STA	STB	LDA	108	STA	STB	LDA	LDB	SFD	STA	STB	LDX	LDA	STA	STA
													IIP2																															
75000891	26800040	00005059	3E80002E	7E80002C	1400001E	5400001C	DEROUOSC	000000009	3E80002E	7E80002C	6C2B0004			1400001C	3A8C	3480	3ABE	SABF	3484	3485	3A8A	3486	5400001E	3490	7491	14000038	24000036	3481	7480	3449	7488	1400004C	2400004A	3487	7486	1400001C	2400001C	DC00004A	3483	7A82	SC2A0150	1400001C	3486	3487
v	~	~	~	2	~	~	~	~	2	2	2	~	2	2	2	2	2	2	d	2	2	2	2	2	2	2	2	2	2	2	~	2	V	~	~	2	2	~	2	2	2	2	2	2
1164	1166	1168	1170	1172	1174	1176	1178	1180	1182	1184	1186	1188	1190	1192	1194	1195	1196	1197	1198	1199	1200	1201	1202	1204	1205	1206	1208	1210	1211	1312	1213	1214	1216	1218	1219	1220	1222	1224	1226	1227	1228	1230	1232	1233
00490	0048E	06500	26500	76700	96400	86500	A6400	0049C	36400	00440	004A2	00444	00440	00448	004AA	004AB	004AC	004AD	004AE	004AF	00480	00481	00482	00484	00485	00486	00488	00484	00488	004BC	00480	004BE	00400	00462	00403	004C4	90400	00408	004CA	004CB	004CC	004CE	00400	00401
106	206	903	506	908	906	206	806	606	910	911	915	913	914	915	916	917	918	919	920	921	922	923	954	955	956	126	958	626	930	931	932	633	934	935	936	937	938	939	076	176	246	943	776	546

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VERSION K2040503

SOURCE								141(3.2)=1.0	0-1-17671141		TM1 (1,1)=TM1 (3,3)=TEM2					TM1 (3.1) = 5Y				SY==58	10-3/=-21	(U.1) ETM(I.J) #TM] (I.J)							TM(1.2) = TM(1.3) = TM(2.1) = TM(3.1) = 0									TM(1,1)=1.0		TM(2.2)=TM(3.3)=TFM0	0:131-1666					TW (5.5)		
	4.5		20.5	22.5	54.82	30.5	FONE	16,5	10.01	TEMOTO	2.5	0.5	34.5	32.5	24.45	10.5	8.5	ZEHO	ZERO	SY	2000	MII 33	***	,	ΨL	Tw]	01	5.1M.M	12.5	14.5	24.5	26.5	4.5	6.5	8.5	FONE	0.5	5.5	TEMO+2	2 2 2 2	16.5	34,5	32.5	Sx+2	SX	30.5	ZFR0	ZERO
	STA	STA	STA	STA	STA	STA	FOR	ATS	010	407	STA	STB	STA	STB	LUA	STA	STB	LUA	LUB	SFD	A DE	2 2	JRU.		PTR	PIX.	2	LOX	CTA	AT A	STA	STA	STA	STA	STA	10	STA	STB	L04	27.0	1 1 1	STA	818	LUA	LOB	ATS	104	108
GBOCHAM	4042	3043	SARA ARAF	3488	348E	3ABF	5400001E	3488	7.00000	14000034	3481	7480	3491	7490	14000048	34000046	7484	1400001C	5400001C	DC000046	3480	7880	2000	0020	0000012C	00000000	00000004	SC2A012C	14000010	3407	3440	3460	3462	3483	3484	54000015	3480	7461	14000030	340000E	7444	3491	7490	14000041	24000045	SABF	14000010	5400001C
	2	0 0	4	10	~	2	N	2	v	No	un	10	2	2	v	va	١٨	12	2	2	V	20	un	J	2	2	2	v	v 0	4 0	u N	N	2	~	2	un	1 ~	2	~	V (	v	1 ~	2	2	2	20	va	10
30000	1234	1235	1236	1237	1238	1239	1240	1242	1643	1244	1244	1249	1250	1251	1252	1254	1257	1258	1260	1262	1264	1265	1268	200	1270	1272	1274	1276	1200	1201	1282	1283			1286	1288	1290	1881	1292	-	1297	-	1299	1300	1302	1304		1308
D. Contract	DOVES	20400	50400	00402	90500	10000	00409	0040A	00409	20400	00450	004E1	004E2	004E3	004E4	00446	00469	004EA	DOGEC	004EE	00450	14500	21400		004F6	00468	004FA	004FC	004FE	00000	20500	00500	00200	50500	00200	20000	0050A	90500	0050C	UUSUE	01500	51500	00513	00514	00516	00518	00514	00510
	C. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			0 656							957					796					968		071						976		979			286		1000			988		040							666
	DIAGNOSTICS L																							GENERATED																								

	SOURCE	SX=-SX		TM(3,2)=-SX	A(I.) =D1(I.) *TM(I.)						SETS UP D(I,J)	(D. I) A (I. D) = (I. I. D)						01 (I+) = TM(I+) *AU(I+)							AJ(I+J)=D1(I+J)				CALL ALIGN OUTPUT ROUTINE	
		SX	55.52	20.5	MUL33	10+4		01	¥	A	IIRS	MUL33	8.4		0	٨	MT	MUL33	8.4		×	A.J	01	5.34.M	01.5	A.5	5.2.M	111938	ALNO	IIPM
		SFD	STA	STB	Sr	JRU		PTR	PTR	2	Sr	Sr	JRU		PTR.	ALG	PTR	Sr	חאר		AT.	PTR	ALG	LUX	LUA	STA	NWI	760	Sr	KTA
											1123														111938					
LIGN *	PROGRAM	2 DC000042	3488	748A	00005059	8009	0010	000000094	00000120	00000000	640405AC	94040000	8009	0020	000000E4	00000000	0000012C	64040000	8009	0020	0000012C	000000F2	+50000000	SC2A0022	16800054	3E8000F2	6C2B0002	64300544	90504049	7400000E
V . I	07		2	2	2	2		2	2	2	~	2	2		2	2	2	2	2		2	2	2	2	2	2	2	N	2	2
DECK NAME=*ALIGN *	ADRES DADRES	1310	1312	1313	1314	1316		1318	1320	1322	1324	1326	1328		1330	1332	1334	1336	1338		1340	1342	1344	1346	1348	1350	1352	1354	1356	1358
DE	AURES	0051E	00550	00521	00522	00524		00526		0052A	0052C	0052E	00530		00532	00534	00536	00538	0053A		0053C	0053E	00240	00542	5000			0054A		0054E
0203	INE	1000	1001	1002	1003	1004		1005	1006	1001	1008	1000	1010		1011	1012	1013	1014	1015		1016	1017	1018	1019	1020	1021	1022	1023	1024	1025
VERSION K20A0503	DIAGNOSTICS LINE						GENERATED							GENERATED						GENERATED										

		CANDES	C PROGRAM	AM			SOURCE	
DIAGNUSTICS LINE ADRES DADRES LC	E ADRES	DAUNES C						
					S	BROUTINE GTND	SUBROUTINE GTND (GO TO NAV DECISION)	
					THIS ADU	TINE IS EXECUSION TO ENABLANDST BE THE ADSTUDENTE AUM MISTOR AUM MISTOR AUM MISTOR ALIGN	THIS ROUTINE IS EXECUTED UNCE EVERY 1/8 SECOND DURING ALIGN. THE DECISION TO ENABLE NAV IS BASED ON TWO CRITERIA. 1. NAV MUST BE THE SELECTED SYSTEM MUDE. 2. AN ADEQUATE AU MATRIX MUST BE AVAILABLE, WHICH IS ONLY. WHEN FINE ALIGN HAS BEEN COMPLETED (NMO,GE,B)	
1027	1			٠	ENTRY	Y IIK		
1029	9 00550	1360	2 00000010 IIR	NO IIR	PTR	IIKM		
1031		1364			***	ASCH	ASCH=-1	
				• •	DONG TIEG	CHINEMA INT. TON - NOT SERVICE	TWDI FMENTED	
				•				
1032		1366			LUA MOUE	MODE		
1033	3 00554	1368	2 E4000010	10	SBU	FOUR		
GENERATED . 1034		13/0		00	ZY)	IIKIA		
1035	S 0055C	1372	2 74000010	10	ATA	Σ X I I	MODE = 4 RETURN TO BACKGROUND IN AIR ALIGNATION IMPLEMENTED	
1036	6 0055E	1374	2 6304	IINIA	1A JAL	11418		
GENERALED 1037	7 00560	1376	2 74000010	10	RTA	MY II	MODE>4 RETURN TO BACKGROUND	
1038	8 00562	1378	2 14000030 IIRIB	30 IIR		FLGN	GROUND ALIGN MODE <4	
GENERATED 103	9 00264	1380	2 6110	00	220	1142		
		1362	2 50280020	25	rox	S.NMO		
1042	2 0056A	1384	2 6430056E	00 6c	757	11410	CHECK FOR NMO > /	
1043		1366	-			IIAM	NMU .LE. 7. KETURN TU BACKGROUND	
1044	4 0056E	1390	2 30000000	OA IIRIC		ONE		
1046		1394			200	1143		
GENERALED 1027	7 60676	1304	00100	000		F. 36. W		
1048		1398	2 15800108		ZA LDA	54.5	AU(1.1) = SA(1.1)	
1049		1400				A.J.5		
1050		1402		20	NMI	5.2.M		
1501	2 00576	1404	2 14000050	5011 62	2000	TIME		
1053		1409				TIME		
1054		1410	2 00000032	32	SFD	SAVT	TIME-SAVT	
1056	6 00586	1412	2 64040000	00	XOT SP	MULFO	OMEG* (TIME-SAVI)	
1057		1416	2 64040000	00	Sc	SINCOS		
GENERATED 1058	8 0058A	1418	2 6004 0700	00	URU.	<b>†</b>		

	SOURCE	SWT=SIN (OMEG* (TIME-SAVT))		CWT=COS (OMEG* (TIME-SAVT))		U1 (I.)) = D(I.) *AJ(I.)							AJ([.J.]=01(I.J)						DOPPLER PROCESSING - NOT IMPLEMENTED		INITIALIZE FUR NAVIGATION	
																			NOT			
		SWT	CWT+2	CWT	IIKS	MUL33	8+4		0	P	01	5,34,M	01.5	AJIS	5.2.M	IIR6A	*****		ROCESSING -	****	NAVI	2
		PTK	STA	818	SC	35	750		37.0	AT.	אדם	LDX	LUA	STA	N. I	160	******		OPPLER P	**************	SC	ATA
						146							IREA				****		٥.	00000		
16N *	PROGRAM	00000000	1422 2 30000006	2 70000004	2 640405AC	2 54040000 1186	2 6008	0010	2 000000E4	2 0000000 S	0000000	SC2A0022	15H00054 IIR6A	3E8000F2	2 66280002	2 64300540	•	•			1448 2 64040000	0100000 2 050 1050 0 1010
= 4 AL	37	N	~	~		2	2				2	2	2	2	2	2					2	0
DECK NAME=*ALIGN *	DADRES	1420	1422	1424	1426	1428	1430		1432	1434	1436	1438	1440	1442	1444	1446.					1448	1450
	AURES	00580	0058E	06500	26500	96500	96500		86500	0059A	0059C	36500	005A0	005A2	00544	00546					1073 00548	VV500
0503	LINE	1059	1060	1001	1062	1063	1064		1065	1066	1067	1068	1069	1070	1071	1072					1073	1074
VERSION K20A0503	DIAGNOSTICS LINE AURES DADRES LC PROGRAM							GENERATED														

VERSION K20A0503 DIAGNOSTICS LINE

-	DE	DECK NAME=*ALIGN *	T OF	LIGN *					PAGE	62	
W	AURES	AURES DADRES LC	27	РКОСКАМ				SOURCE			
					, , ,	UBROUTINE	IINS SETS UP	SUBROUTINE IIMS SETS UP MATHIX D TO PHE MULTIPLY MATRIX AJ			
01						ENTRY	1185				
0	005AC	1452	2	CHII ZIOOOOOO	IIKS		IIRSM				
3	005AE	1454	V	SCZAUDE4			5.U.M				
0 -	00590	1456	va	1400001C		STA	ZEKU 24.5	0(1,3)=0(2,3)=0(3,1)=0(3,2)=0			
V	00593	1459	N	3480			26.5				
0	99500	1460	2	34BE			28.5				
+	00585	1461	2	3481			30.5				
:0	98500	1462	2	3484			8,5				
9	19500	1463	2	3445		STA	10.5				
1	00588	1464	2	SARA		STA	20.5				
10	69500	1465	2	3488		STA	22.5				
*	00584	1466	2	5400001£		LUB	FOVE				
0	005HC	1468	2	3490		STA	32.5				
_	00580	1469	2	1441		818	34.5	U(3,3)=1.0			
N	005BE	1470	~	14000000		LUA	CWT+2				
2	00500	1472	2	24000004		LOB	CWI				
+	005C2	1474	2	3461		STA	2.5	D(1,1)=D(2,2)=CWT			
10	00503	1475	2	7480		578	0.5				
0	00504	1476	2	3489		STA	18.5				
1	00505	1477	~	7468		STB	16.5				
m	90500	1478	2	14000002		LDA	SwT+2				
•	005CB	1480	2	24000000			SwT				
0	DUSCA	1482	2	3487			14.5				
-	005CB	1483	~	7486			12.5	D(1,2)=SwT			
~	33500	1484	2	1400001C			ZERU				
3	OUSCE	1486	2	S400001C			ZEH0				
	00200	1488	2 6	00000000			SwT	SwT=-SwT			
0	20500	1490	2	3483			6.5	D(2.1)=-SWT			
2	00503	1491	n.	7482			4.5				
1	00504	1492	2	74000012		ATA	IIHSM				

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SOURCE	E . ALNO			INCREMENT POP-11 FLAG					PUT TIME IN BUFFER				PUT SX.SY. AND SZ IN BUFFER					PUT MATRIX AU IN BUFFER		ATAC GALTO 3 ISTRACO CONT. COO.	FILL WORD FOR POSSIBLE UINER UNIA					POI NMO IN BULLER	
	ALIGNMENT OUTPUT ROUTINE . ALNO	ALNO	ALNOH	DECFLG	ONE	DECFLG	TIME+2	TIME	STIME+2	BTIME	5.10.M	Sx.5	BSX+5	5,2,M	ALNOI	5,34,M	AJ.5	847.5	5.2.M	ALNOS					NMO	BNMO	ALNOR
	LIGNMENT	FVEN	PIR	LDA	ADU	STA	LUA	108	STA	STB	LOX	LDA	STA	Z	760	LDX	LOA	STA	ZWI	760	NOP	NOP	NOP	MON	LOA	STA	ATA
	4		ALNO									ALN01					ALNOZ										
PRUGRAM			0000000	14005100	A4000000A	30005100	1400005A	54000058	30005104	7005102	SCZAUODA	16800042	3E805106	6C2B0002	643005E8	SC240022	168000F2	35805112	60280002	643005F2	0010	0020	0010	0010	1400002C	30005136	74000014
CC			2		2	Ġ	~	2	2	2	~	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
DADRES			1494	1496	1498	1500	1502	1504	1506	1508	1510	1512	1514	1516	1518	1520	1522	1524	1526	1528	1530	1531	1532	1533	1534	1536	1538
AURES			00500	00509	00504	_	005DE																OUSFC	00550			
LINE		1109	1111	1112	1113	1114	1115	1116	11117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135
DIAGNUSTICS LINE ADRES DADRES LC PRUGRAM																											

STATISTICS

TOTAL SHORTS 120
TOTAL LONGS 612
TOTAL LONGS 612
PERCENT 10-4
GENERATED NORT 10-4
THEORETICAL PERCENT NOW LOADING 7.6
ACTUAL PERCENT NOW LOADING 7.6

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NA SET MALLEL NAME NAME NAME CONCURRENCES  A TALLEL NAME NAME NAME NAME NAME NAME NAME NAME	LATIVE	ADDRESS				,			מינים ביינים	1		•
12   5 A   114   115   1007   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1012   1056   1070   1070	COR SET	VALUE) DEC	2		LINE NUMB	ERS OF O	CCURRE	NCES				
207 1 40	200	12	S	4	114	115	1007	1012				
242 4 4J 109 1017 1021 1049 1066 1070  28 4 4AJ 109 1017 1021 1049 1066 1070  28 4 4AJ 109 112	03E	62	-	ACM	318	969	669	157	758	852	853	
12	240	245	t	A.	109	1017	1021	1049	1066	1070	1125	
15   16   167   151   111	200	12	0	AKIT	166	519	659	851				
1512   2   4LNOR   1101   1135   1151   1135   1152   1152   1126   11	010	91	10	AKZT	167	530	531					
1512 2 ALNOI 1120 1123 1124 1134 1135 1135 1135 1135 1135 1135 113	014	50	-	ALNOR	307	1111	1135					
1522 2 ALNOZ 1112 1124 1109  1494 2 ALNOZ 1111 1024 11109  334 5 7 AT 1 126  20754 13 6MJ 294 1126  20754 13 6MJ 295 1112  20755 13 6MJ 295 1112  20755 13 6MJ 295 1112  20756 13 6MJ 295 1112  20757 13 6MJ 295 1112  20758 13 6MJ 295 1112  20759 13 6MJ 295 1112  20759 13 6MJ 295 1112  20750 1112  20750 13 6MJ 295 1112  20750 1112  20750 13 6MJ 295 1112  20750	SE8	1512	2	ALN01	1120	1123						
1694 2 4LNO 1111 1024 1109  3.45 7 AP  3.46 7 AP  3.47 1 3 4AT  2.0734 13 5NMO  2.0742 13 5NMO  2.0743 1126  2.0743 1126  2.0744 1111 1118  2.0749 1117 1118  2.0749 1216  2.0740 1216	SFZ	1522	2	ALNOZ	1125	1128						
15	909	1494	2	ALNO	1111	1024	1109					
336 7 AP 155  344 7 AT 156  20754 13 6AJ 294 1126  20779 13 5000 295 1121  20736 4 HTE1 17  20736 4 HTE1 17  20736 6 HTE3 120  20737 13 HTME 295 1121  20738 13 HTME 295 1121  20739 13 HTME 297 1121  20739 6 HTME 297 1121  20739 7	010	16	1	ALT	126							
20754 13 4AT 116 119 374 376 20754 13 4AT 156 20754 13 4AT 20754 13 4A	150	336	1	AP	155							
20754 13 6AJ 20756	036	54	S	ASCH	118	119	374	376	1031			
20754 13 64J 20756 13 64J 20750 13 64MO 20736 4 HTE1 20736 4 HTE1 20736 6 4 HTE1 20736 6 4 HTE1 20736 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	150	348	-	AT	156							
20750 13 4040 295 1121 20750 13 4040 295 1117 20750 13 45X 293 1121 20750 13 45X 293 1121 20750 13 45X 295 1117 20750 13 45X 295 1117 20750 14 415 14	112	20754	-	141	766	1126						
20742 13 45K 293 1121 20738 13 HTME 292 1117 20738 13 HTME 292 223 20738 13 HTME 292 223 20738 29 C0004 2224 2074  9 C004 223 233 2075  9 C014 223 234 2076  9 C015 224 2076  9 C016 224 2076  9 C017 224 2076  9 C017 224 2076  9 C017 224 2076  9 C018 224 2076  9 C017 224 2076  9 C017 224 2076  9 C017 224 2076  9 C017 224 2077 224 2077 225 2078  9 C017 225 2	136	20790	-	OWNE	566	1134						
20736 4 9fE1 20736 6 4 9fE1 20736 6 4 9fE3 50 4 9fE3 50 6 9 00010 50 9 00010 50 9 00010 50 9 00040 50 9 00040 50 9 00040 50 9 00040 50 9 00040 50 9 00040 50 9 00040 50 9 00040 50 9 00010 50 9 00010 50 9 001	106	20742	-	×ST	293	1121						
20738 13 811ME 292 1117 20738 13 811ME 292 1117 20736 9 0001 2223 264 9 0004 2224 27 9 0004 2224 28 9 0004 2224 28 9 0009 2234 100 9 0012 2234 112 9 0015 234 113 9 0015 234 114 9 0022 244 115 9 0017 2234 116 9 0017 2235 117 9 0021 224 118 9 0017 2235 119	020	27		1151	27							
20736 13 811ME 2922 1117 20736 9 00010 2222 68 9 0003 2222 68 9 0004 2222 72 9 0004 2222 88 9 0006 2224 72 9 0006 2224 88 9 0007 2224 88 9 0008 2224 100 9 0010 2231 100 9 0011 2232 112 9 0015 233 113 9 0015 234 114 9 0022 244 115 9 0022 244 116 9 0022 244 117 9 0023 244 118 9 0024 244 119 9 0027 244	000	0	,	1163								
20738 13 811 ME 292  64 9 0001 222  65 9 0001 222  72 9 0002 223  75 9 0004 222  80 9 0007 223  80 9 0007 223  80 9 0007 223  100 9 0011 223  100 9 0011 223  112 9 0012 234  112 9 0013 234  113 9 0014 234  114 9 0015 234  115 9 0017 234  116 9 0017 234  117 9 002 244  118 9 002 245  119 9 002 245  110 9 0017 234  111 9 0017 234  112 9 0017 234  113 9 0017 234  114 9 002 245  115 9 002 245  116 9 002 255  117 9 002 355  118	250	00000	*	9153	910							
20736 BUFFING 64 9 C001 56 9 C004 72 9 C004 75 9 C004 66 9 C004 66 9 C004 66 9 C006 67 9 C006 68 9 C007 68 9 C007 68 9 C007 68 9 C017 68 9 C017 68 9 C017 68 9 C017 68 9 C026 68	701	20/38	13	BIME	262	1111	1118					
66 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	100	20736		BUFORG	-	290						
64 9 0002  75 9 0004  76 9 9 0005  76 9 9 0005  77 9 0005  78 9 0005  78 9 0005  78 9 0011  78 9 0012  78 9 0015  78 9 0015  78 9 0015  78 9 0015  78 9 0015  78 9 0015  78 9 0022  78 9 0022  78 9 0022  78 9 0023	030	09	0	C001	222							
9.8 9 9 000.4 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 4 9 9 000.5 1 12.6 9 9 00.1 5 1 12.6 9 9 00.1 5 1 12.6 9 9 00.1 5 1 12.6 9 9 00.1 5 1 12.6 9 9 00.1 5 1 12.6 9 9 00.2 5 1 12	0+0	10	,	CD02	223							
75 9 0004 8 8 8 9 0004 8 8 9 0000 9 2 9 9 0000 100 9 0000 100 9 0010 100 9 0010 100 9 0010 112 9 0010 113 9 9 0015 114 9 0015 115 9 0015 116 9 0022 117 9 0023 117 9 0023 118 9 0023 119 9 0023 110 9 0023 1	770	68	6	CD03	554							
72 72 75 75 75 75 75 75 75 75 75 75 75 75 75	0.35	26	S	CD04D	120							
80 9 9 0005 96 9 9 0005 96 9 9 0005 97 9 9 0005 100 9 9 0005 1112 1124 1125 126 9 9 0015 1275	840	72	6	C004	225							
80.9 92.9 93.9 94.0 100.0	770	75	0	CDOS	226							
100 99 99 99 99 99 99 99 99 99 99 99 99 9	050	000	0	5000	227							
100 9 9 9 00 10 10 10 10 10 10 10 10 10 10 10 10	750	7	0	2005	358							
95 9 9 0010 100 9 9 0010 100 9 0 0010 1112 9 0 0010 120 9 9 0010 120 9 9 0010 120 9 9 0010 120 9 9 0010 120 9 9 0010 120 9 9 0010 120 9 9 0020 120 9 9 9 0020 120 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	900		. 0		330							
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100 100 100 100 100 100 100 100	200	36		5003	053							
100 100 100 100 100 100 100 100	000	96	,	0100	157							
104 115 115 116 116 117 128 138 138 138 138 144 144 144 155 160 160 160 160 160 160 160 160 160 160	790	100	0	C011	232							
106 116 117 128 128 128 138 138 140 140 140 140 140 140 150 160 160 160 160 160 170 160 160 160 160 160 160 160 16	990	10*	0	C012	233							
112 126 127 136 136 136 136 136 136 136 136 136 136	290	100	•	CU13	234							
116 126 127 128 138 138 138 139 139 140 140 150 160 160 160 160 160 160 160 16	010	112	0	C014	235							
120 124 124 135 135 140 140 140 140 140 140 140 140 140 140	710	116	0	C015	237							
128 8 8 9 9 00 11 12 13 13 2 2 9 9 00 11 13 13 13 13 13 13 13 13 13 13 13 13	820	120	0	C015	238							
128 138 138 140 140 150 150 150 150 160 160 160 160 160 160 160 160 160 16	070	174	0	5017	236							
135 136 144 144 144 144 144 144 144 144 144 14	010	120	0	2000	070							
136 140 140 150 150 150 160 160 160 170 170 170 170 170 170 170 170 170 17	270	133	. 5	0100	24.1							
146 9 9 0022 144 9 9 0022 155 9 9 0023 156 9 9 0023 160 9 9 0024 172 9 0027 173 9 0027 180 9 00		301		100	11.0							
140 144 152 153 164 164 164 164 172 168 169 172 169 173 174 175 175 176 176 176 176 176 176 176 176 176 176	000	136	•	COSO	242							
144 9 0022 155 9 0024 156 9 0024 160 9 0025 168 9 0027 172 9 0027 180 9 0039	200	0+1		1705	543							
148 9 0023 155 9 0024 150 9 0026 104 9 0027 172 9 0028 176 9 0039 180 9 0039	060	144	•	CDSS	544							
155 9 0024 169 9 0026 164 9 0027 172 9 0039 176 9 0030	***	148	6	C023	545							
155 9 0025 160 9 0026 158 9 0027 172 9 0029 176 9 0039 180 9 0031	860	152	2	C024	546							
160 9 0026 154 9 0027 168 9 0028 172 9 0029 176 9 0030 180 9 0031	260	156	•	C025	241							
156 9 0027 178 9 0039 176 9 0030 176 9 0030	040	160	0	6026	244							
164 9 0024 174 9 0024 175 9 0030 180 9 0031	240	100	. 0	5053	2000							
172 9 0.026 172 9 0.039 176 9 0.030 180 9 0.031	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. 0	1300	2000							
175 9 CU29 175 9 CU30 160 9 CO31	240	901	,	5000	062							
175 9 6030 150 9 6031	DAC	176	0	6200	152							
160 9 0031	090	175	0	CD30	252							
	990	160	•	C031	253							

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PAGE					
	863				
	851				
	836	636			
	830	64 4			
>	424	9 4 9 5	1069		
SKC 2000 CROSS REFERENCE DICTIONARY OF UCCURRENCES FERENCES 387 840	23	1 4 8 4	1069		
CE DIC	690	483	1020	2	
EFEREN	586	576	952	Ì	
NCES K	574	454	1005	# 6 m	
CCURME NCES	573	427	906	3,46	413 402 421 503
SAC REFERE 387 840	572 172	456	452 424 1038 584	478 3371 380 406 407	4534 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
SKC 2000 CHOSS LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES 212 387 331 840	315 113 124 137 137 137 137 137 137 137 137 137 137	25 111 25 112 26 212 26 213	144 207 207 207 146 147 328 328 321 211	204 104 104 104 104 104 104 104 104 104 1	218 14 18 18 18 18 18 18 18 18 18 18 18 18 18
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94	35 40 32 32 73 FF INEU***	000044220	186 186 186 186 186 186 186 186 186 186	24 25 0 4 0 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
E SE	00024 00028 00038 00046 00046 00046	000014 00000 00000 00004 00004 000004	000034 000016 000016 000046 000000 000000	000010 000050 000050 000050 000050 000050 000050	0000FC 0000E 00104 00106 00106 0010C 0010C

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			VALUE) VARIABLE NAME	LINE NUMBERS	OF	OCCURRENCES	CES		
HEX		CC		DEFINED	EFER	CES			
0011E	286	2	1102	435					
0013A	314	2	1103	644	447				
00144	354	2	IID4A	454	795				
00140	350	2	1104	452					
1015A	346	2	1105A	465	476				
99100	345	2	1105	463					
47100	378	1	11064	481	486				
22.00	370	, (	1001		7.75				
20100	0.00	v	1106		000				
26100	204	v	AIOII	643	110				
06100	004	~	1107	765	451				
00146	455	2	1108	503	614	164			
DNO	*****UNDEF INED****		116		395				
UNDOON	****ONDEF INED****		115		397				
UNDOOOD	*****UNDEFINED***		116		366				
MAINA	424	•	111	207	400	505			
7000	7	J -	771	200	203	631	643	454	
		• (		622	2	100	250	100	
DOLAR	924	v	IHI	208					
201160	794	7	ITHCA	536	246				
00100	811	2	1142	519					
001F6	505	~	IIH3A	247	246				
DOIFO	404	1	1143	543					
30000	670	10		635	277				
1000	200			100					
00000	0.0	v	1011	250		,,,			
90700	711	v	IIk	929	011	959			
90000	9	-	IIKM	300	658	202			
002CA	714	2	IIKZ	659					
002E0	736	2	IIK3	670					
21500	786	^	TIKAA	569	169				
3020	743		1114	603					
3000	300	4		240	67.5				
10504	260	v	וור	****	240				
00286	169	2	1111	949	653				
00322	802	2	IIn	106	412	104			
70500	404	10	IMI	707					
0000		, -	777	201	204	240			
0000	0 00	- (		100	0 1	001			
97500	202	V	IMIA	607	(1)				
3037E	894	~	IIMZA	752	747				
10382	868	2	IIMZB	154	751				
41 500	822	^	ITM2	716					
V0000	10	, -	11434	200	764	774			
1000	010	• (	HE LINE	305	100	-	.00		
06500	216	v	1143	101	103	701	240		
001FC	208	~	NI.	920	243				
90200	518	2	IINIA	955	264				
3020C	558	2	IINIB	576	583				
DOIFE	HOS	^	11N1	551					
346	034	10	110	778	414	177			
1	12	J -	2011	202	177	707			
0000	31	- (		200	011				
2000	120	v	41011	130	070				
00348	430	V	1011	6					
00414	1050	~	11024	841	847				
303F2	1010	2	1102	821					
98500	1158	2	ПР	868	415	969			
90000	14								
		-	Mail	304	171	1025			

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PAGE		793
		8 8 8 8
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SKC 2000 CROSS MEFEMENCE DICTIONAMY UF OCCUMMENCES FEMENCES		865 7 7 8 8 6 7 7 8 8 6 7 7 8 8 6 7 7 8 8 6 7 7 8 8 6 7 7 8 8 6 7 8 8 8 8
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EFEREN		9843 1014 11133 11133
ROSS K		1004 1004 1004 1004 1004 1004
2000 C CCURRE NCES	1027	995 396 396 477
SKC 2000 CROSS LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	1023 418 1029 1034 1046 1072 1072 1072 1072	1055 1055 1055 1055 1055 1055 1055 1055
LINE NUM DEFIN	989 989 1020 1020 1020 1020 1030 1047 1063 1063 1064 1064 1064 1064 161 161 161 161 161 161 161 161 161 1	38 172 175 198 110 132 200 200 1199 1199 1195 216 216 216
=*ALIGN *	11171 11172 11173 1173 173	MULTO MALL 33 MALL 33 MALL 33 MACCO MINCO
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				8 8		826 902 889	568 750 669 873
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SKC 2000 CHUSS REFERENCE DICTIONARY		700		045		1099 731 900 962 856	556 744 597 859
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KOSS K	NCES	501		536	723 1057	587 771 771 726 873 831	559 736 590 733
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		988		970								661				194				439																	149	996	
		911		971								099				466				438																	74.8	965	
		910	,	140								129				465				437																	728	943	
IONARY		908		739				1016				650				094				432																	757	938	
SKC 2000 CROSS REFERENCE DICTIONARY		906		738				1013		973		079				459				431																	.03	937	•
FERENCE		904	956	610			1116	1006		345		643	715			458				430												405					202	282	
USS RE	CES	068	955	609				975		158		640	010			456				428					970	000				36.0	835	563	601	619	630	614	109	100	1103
000 CH	CURREN	1887	874	603			1053	972		156		171	637	999		190		785	638	103	21	464				2/0		765	859	862	853	202	009	618	659	613	909	376	1102
SKC 2	OF OC	988	865	928			1050	416	1045	155		170	635	665		189		181	633	192	7/1	493			707	200	200	330	788	198	228	20 2	200	617	628	612	909	212	1080
	LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES		315	316	503	4.1	203	55.	44	153	202	35	165	170	171	188	189	190		154	191	193	567	281	186	181	330	329	176	171	178	185	180	181	182	183	184	210	
=*ALIGN *	VARIABLE NAME		TE:42	TEM4	TEN	TEST	THREE	TIME	TAPE	TM1	TWO	T0	VAX	VAXI	747	VCIX	VC2X	VC3X	VECADO	VECT	XI IX	VEST	VE 3X		VTB	710	10%	-COCOL	XA	ж	×C	44	TAI	781	782	rc1	YCZ	ZEHO	
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XAEF 1	RELATIVE A CON SET V HEX		00035	000036	0001A	0000A	0000E	0000	00120	00150	00000	0005C	00019	00000	000010	02000	000072	0007E	*********	00174	0000	96000	24000	00110	0005E	29000	000010	00000	00005	00036	0003E	94000	95000	000044	25000	000056	0005A	00010	

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VERSION K20A0503		CK NAME	DECK NAME=*RTEXEC*				<b>V</b>
DIAGNOSTICS LINE		ADRES DADRES LC	LC PROGRAM	SFAP RTE	RTEXEC		SOURCE
					EXECUTIVE	DATA AREA	
				0.41	24.00		SECTION STORES MOUTTO TO SETERATORS
	S OTECO	32704		APOIL	SETX	75.00	DMA CONTROL MORD AREA
		32712		PICOUT	SFTX	75.08	INPUT CONTROL MORD LOCATION
			-5-	RETO4	SETX	7FEB	INTERRUPT 04 RETURN LOCATION
		32746	-5	RET05	SETX	7FEA	INTERRUPT 05 RETURN LOCATION
			-5	RET10	SETX	7664	INTERRUPT 10 RETURN LOCATION
			-5	TEMCOR	SETX	3FFE	SUBLIB STACK AUDRESS
			-5	MSK	SETX	FF7F	
			-5	EXORG	SETX	7800	ORIGIN OF EXECUTIVE ROUTINE
	0 07F A 0	32672	25	INTORG	SETX	7F A 0	INTERRUPT TRAP AREA ORIGIN
12			27	1 MSR DFC	SFTX	H400	POP-11 INTERFACE ROUTINE ADDRESS
			12	SDLORG	SETA	6FEU	SIDL DATA AREA ORIGIN
14			0		USE	0	
				*			
15		23473	00		ORG	INTORG	
α.	7 07F AB	32680	0 64300220	TRP04	160	1NT04	INTERRUPT 04 VECTOR LOCATION
					160	INTOS	
1	9 OTFAC				HSS	00	
2	0 07184	35695	0 64300158	TRP10	760	INTIO	INTERRUPT 10 VECTOR LOCATION
				* GEA	NS WORL	D COMMON VAR	GEANS WURLD COMMON VARIABLES DATA AREA
2			4	WLDCOM	COMMON	4	
2	000000	0	,	SRT1	HSS	4	GYRO ROTOR 1 SPEED ACCUMULATION
N		4	1	SRTZ	BSS	4	GYRU KOTOR 2 SPEED ACCUMULATION
2		00	1	KATM	BSS	,	NEGATIVE R.A.T. PULSE ACCUMULATION
2		12	1	RATE	HSS	t	PUSITIVE R.A.T. PULSE ACCUMULATION
2		9 9	1.	ROTI	988	~ ~	GYRO 1 ROTOR SPEED ( REVSECOND )
76	21000	0 0		2000	200	v :	ACCUMINATED OF T AX
12		24	, ,	DVYG	855	, ,	ACCUMULATED DELT VY
8		88	,	DVZG	888	4	ACCUMULATED DELT VZ
mi		32	,	VVGO	955	4	DUPPLER VERTICAL VELUCITY ACCUMULATION
n		36	1	DPDV	828	4	DOPPLER DRIFT VELOCITY ACCUMULATION
7	3 00028	05	1.	>H40	HSS	4	CORPUS MEANING VELOCITY ACCUMULATION
7 67		1 1	1 1	BTE1	HSS	* ~	BITE ACTUAL STATE MASK WORD 1
ř		20	1	HTE3	888	. ~	BITE ACTUAL STATE MASK WORD 3
3		52	1	HICT	BSS	2	COUNTER FOR HUTOR 1 SPEED FAULT
3		54	1	RZCT	HSS	2	COUNTER FOR HUTOR 2 SPEED FAULT
39		26	1	CIPM	888	20	INPUT POWER MONITOR COUNTER
3, 7	00034	200	1 1	144	250	~ ~	COUNTER FOR HAI
. 7		25	. 1	XXO	188	1 4	INPUT DELTA VX
43		99	1	DVY	858	1 4	INPUT DELTA VY
777		70	. 1	ZAO	BSS	. 1	INPUT DELTA VZ
,		14	1	CYLE	888	2	OUT-OF-TIME FLAG

N			
PAGE			
SOURCE  DOPPLER VEHITCAL VELOCITY  DOPPLER PRIFT  DOPPLER HEADING  INTERNAL SEQUENCING COUNTER  INTERNAL SEQUENCING PHASE  AUTOMATIC SEQUENCING PHASE	SYSTEM DATA SWITCH (0-7) PUSHBUTTON SWITCH (0-31) PKESS TO TEST SWITCH (0/-1) SYSTEM HODE SWITCH CDU LIGHTS (SOFTWARE) TEMP STORAGE LOCATION FRAME MARKER MSH OF GMT MSH OF GMT MSH OF LATITUDE LSH OF LATITUDE	MSH OF LUNGITUDE MSH OF VERTICAL VELOCITY LSH OF VERTICAL VELOCITY LSH OF VERTICAL VELOCITY LSH OF EAST VELOCITY LSH OF EAST VELOCITY MSH OF EAST VELOCITY LSH OF NORTH VELOCITY I.N.S. ALTITUDE AHRS HEADING AHRS PILCH RESETIMU.PDU.EAU.CDU.BATT BITE BITS 3HO.4TH-STH-6TH, RIGHT NUMERIC 4 DISCRETES! N.ALPHA! IST.AND R. NUMERIC	ZND.37D.4TH.5TH LEFT NUMERIC 157.2ND WAYDOINT! L. ALPHA! 1ST L.NUMERIC 157.2ND FADOM. 157.2ND TO CDU/ACDU DISPLAY LIGHTS HEADING PITCH FOLL STEERING SIGNAL SEQ CNT.61.2 MED.61.2 TERM SHUTDOWN BITS TORQUE FOR GIMBALS. 1 AND 2 TORQUE FOR GIMBALS. 3 AND 4 ROTOR 1.2. HOTOR SPEED HAT AND VERTICAL VELOCITY
	002 003 004 005	200000000000000000000000000000000000000	22 22 22 22 24 25 26 27 26 27 28 33 33 33 34 34 34 35 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37
2 2 2 2 2 4 4 5 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Σ		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	032 034 035 023 022 022 022 072 072 071
DECK NAME = **RTEXEC**  S DADRES LC PHOGRAM  T T T T T T T T T T T T T T T T T T T	24 58 0 0 2 2 3 3 4 5 8 8 0 5 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
VERSION K20A0503  DIAGNOSTICS LINE ADRES  46 00050  47 00046  49 00054  50 00054  51 00056  52 00058  53 00056  54 00060  55 00058  55 00058  55 00058  55 00058		73 0000 C	
010			

-++ DELTA VX	DELTA VY	DELTA VZ	GIMBAL I RESULVER	GIMBAL 2 RESULVER	10	VER	DATA . MUDE . TST AND PUSHBUTTON SWITCHES	BITE BITS		BAROMETRIC ALIITUDE AND BITE BITS	DRIFT AND HEADING VELOCITY	SPARE	SPARE	DELIA LATITUDE (FIX)	DELIA LONGITODE (FIX)	COOKS TOACK DIFFERENCE VELOCITY	CROSS TRACK DIFFERENCE VELOCITY	ALONG INACH DIPERENCE VECCOI	ALL ALIGINATION MATRIX	AL TONMENT	AL TONMENT	AL TGNMENT	AL IGNMENT	AL I GNMEN!		LIGNMENT	SPARE	SPARE	ALIGNMENI MAINIA	MATHIX.VECTOR.AND MISCELLANEOUS DATA	CT KOMEGA T)	SI ACCIONED TO	SIN (GEODETIC LATITUDE)	COS (GEODETIC LATITUDE)	AL TITUDE		ON (BIAS EXCLUDED)					SUM OF 1-(G KNUWN) / (G ACCELERATION)			COMMECTED GIMBAL ANGLES		
35	36	37	38	39	0+	41	74	43	77	45	46	14	24	5 1	20	21	20	20	10 11	22	200	ת מ	000	09	19	95	63	40									POSITI								CTED 6		
•		, ~	2	2	2	2	2	2	2	2	2	2	2	2	2	~	V 1	2	~	V	<b>v</b> (	<b>u</b> 0	u n	u ~	2	2	2	2	36	1 1		t.	+ :	+ 4	, ,		SOLVER		1 1		1 :	t a	2			4	
HSS	250	888	HSS	955	888	BSS	BSS	988	889	988	HSS	988	955	888	888	828	922	BSS	822	822	955	200	200	888	BSS	HSS	955	822	828	COMMON		HSS	200	200	000	200	GIMBAL RESOLVER POSITION		655	0000	622	455	HSS		COSINES OF	455	
050	050	052	053	054	055	056	058	050	05E	025	090			05A	062	057	058	650	063	990	065	999	190	690	06A	990			74	 MATCOM	•	SWT	- 30	Sour	COUL		* 61M	٠	KESI	2525	KESS	AES4	NAC N		500	61	
PROCHAM																																															
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	787	101	100	100	192	194	196	158	200	202	504	506	208	210	212	514	516	218	220	222	554	226	822	230	234	236	238	240	245			0	1	000	77	0			20	57	82	32				46	-
ADRES DADRES	99000	000000	0000	DOODE	00000	20000	40000	90000	0000	0000CA	00000	OUOCE	00000	00000	+G0000	90000	80000	0000A	00000	COCDE	000E0	000E2	DOOF	00000	OUDEA	OODEC	OUDEE	00000	000F2							01000							12000			00025	
	85	66			103	104	105	106	107	108	601	110	111	112	113	114	115	116	117	118	119	120	121	122	124	125	126	127	128	129		130	131	132	133	134			135	136	137	136	159	0+1		141	

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BSS 4 SOURCE	SINES OF CORRECTED GIMBAL ANGLES	4 SSH 4 4 SSH	4 SSB 4 4 85S		BSS 2 GAIN COLUMN INDEX	× ×	BSS 36 TOTAL GIMBAL AND THEN TSP2	STATE MATMIX ( STURED ROW MAJOR ORDER )		E13 = PHI = ROLL			8SS 12			36 SAVE	HSS 36 LEMP 3X3 MAIRIX	34 TABLE OF	TMI	TM1+12 TEMP 3X	Euu 0	01		SRA+4	FOU CGDL COS (LAT) GEOUETIC	COMMON 11 EXEC. SPIN. AND MISC COMMON DATA	2 BITE DESIRED STATE MASK	BITE DESIRED STATE MASK	2 BITE DESINED STATE	BITE DESIRED STATE MASK	2 BITE CHECK ENABLE MASK	S BITE	STE CHECK FNABLE MASK	SEQUENCING HOLD FLAG	955 2	HSS 2	928
3.	S	51	25.3	KSNI	KSNZ	NSN3	90		***		• •	£1	52	00	0	SA	2 2	VECT	AP	AT	J3X3	13X3	LCAI	LCA4	ל כ	 SPEXMC	1001	4052	9033	9084	GMK1	BMK2	DAN'S	10:01	LPTK	TEMP	TEMPZ
РКОСКАМ																																					
7				1	~							1		- 1	1	1			-					-	- 1	11			::			7				11	
AUMES UADRES LC 0003A SA 7		999	22	78	90	28	120					156	168	192	228		300		336			220	36		20		0	0 0				10				20	
AUMES 0003A		0003E	000046 000048	4000	05000	25000	000078					26000	0000 AB	00000	000E4	90100	0012C	00100	00100	0015C	000E4	00100	000024	92000	00000		00000	20000	00000	90000	80000	00000	20000	OCCOOL	000012	000014	000010
INE I			148		150							154	155				100		163			600			170	172	173	174	175						182		184
DIAGNOSTICS LINE																																					

PAGE		
SOURCE SPIN TERMINATE FLAG STORE GYRD INVERT ANGLE STORE LAST PASS DATA SWITCH INPUT VALUE AHRS PITCH AHRS PITCH GIM 1 RESOLVER COMMAND ( BIAS INCLUDED ) GIM 2 RESOLVER COMMAND ( BIAS INCLUDED ) GIM 3 RESOLVER COMMAND ( BIAS INCLUDED ) GIM 4 RESOLVER COMMAND ( BIAS INCLUDED )	GEANS WORLD COMMON CONSTANTS DATA AREA  COMMON 9  DEC -64  EVEN  BSS 2  BSS 3  BSS 3  BSS 3  BSS 3  BSS 4  BSS 4  BSS 4  BSS 4  BSS 4  BSS 5  BSS 5  BSS 5  BSS 6  BSS 6  BSS 6  BSS 7  BSS 7	EARTH ROTATION RATE RAD/SEC EARTH RATE PI RAD/SEC GEODETIC LATITUDE CONSTANT DELTA TIME = 1/8 SECOND DOUGHE PRECISION 1/32 =3/32 CD01-CD64  X ACCEL SCALE FACTOR M/SEC/PULSE Y ACCEL SCALE FACTOR M/SEC/PULSE Z ACCEL SCALE FACTOR M/SEC/PULSE X ACCEL BIAS PULSE/SEC Y ACCEL BIAS PULSE/SEC Z ACCEL BIAS PULSE/SEC
00100001444 ₹ 5	0 COMMON C	1111111 N 111111 O N 111111 O N 1 O
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PANS COMMON COMMON EVEN BASS BASS BASS BASS BASS BASS BASS BAS	655 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
TEMP4 AASK AASK CAD1 CAD1 CAD2 CAD3 CAD3	S Ayon As Atmons	0004 0006 0006 0006 0006 0003 0003 0003 0003 0003 0003 0003 0003 0003 0003
PHUGRAM	FFFFF CON NOW NOW NOW NOW NOW NOW NOW NOW NOW N	
¥ 2222222222		••••••
DECK NAME = ** TEXEC*  S DADMES LC PROGR  A 26 11  C 28 11  C 28 11  C 34 11  C 44 11  C 46 11  C 48 11  C 48 11  C 50 11		W W 4 4 4 W W 0 0 4 W W V F W 0 0 4 W W W 0 0 4 W W W 0 0 0 0 0 0 0
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VERSION K20A0503 DIAGNOSTICS LINE 1846 1876 1976 1976 1976 1976 1976 1976 1976 19	α	

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SOURCE	HII ACCEL MISAL IGNMENT		1			ACCEL	1	ACCEL	831 ACCEL MISALIGNMENT	ACCEL		833 ACCEL MISALIGNMENT	MO-BNAC NAGARITY STREET CANA	TO LINE OF THE PROPERTY OF THE	The state of the s	GYRO TORGUE & INDEPENDENCE - CM	G11 GYRO TORQUE, G DEPEN, DYNE-CM/SEC**2	GYR		2	5	245	GYR	GYE	GYR	633 GYRO TURQUE, G DEPEN, DYNE-CM/SEC**2	GYR	KAT GYRO TORUCE DYNE-CM	DEPENDENT	MOLENCO THEOREMS TO SERVICE OF THE S	COMPT TO INDEPENDENT	INDEPENDE	SPEED COMP.6 INDEPEN DANE-CHANGECTO	COMP. G INDEPEN	COMP.G INDEPEN	COMP. G INDEPEN	COMP. 6 INDEPEN	COMP. G INDEPEN	COMP . G		SPEED COMP.G INDEPEN DYNE-CM/M/SEC++2	SPEED COMP.G INDEPEN DYNE-CM/M/SEC**2	AT SPEED COMP D	-	SOUTH	GNMENT	10	SESOI VER RIAS	SANTON OF THE CAME OF THE CAME	PESOI VER BIAS	AZIMITE AL TON	PLATFORM FLEVATION ALIGN IN PLANTAN		このようしょく ロー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー・カー	VERTICAL VELOCITY GAIN UNIT FSS	OIA		LOADED LATITUDE PT RADIANS			
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	355	-	28	-	HLP3		~	ACCUMULATED ERROR WORD 3 BITS	
	326	0001E	30	1	8LP4			ACCUMULATED ERROR WORD 4 BITS	
	327	00000	32	1	BNBK	888		BITE ERROR COUNTER	
	324		34	1	ACTA			RITE FREDR TIMFR	
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	363		20		200			VELTA THE TANK THE TA	
	330	00056	38	-	MALF			INSTANTANEOUS MALFUNCTION NUMBER	
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	333	22000	**	-	DERC			BILE ERROR WORD S	
	334	0002E	46	7	SER3			BITE ERROR WORD 3	
	335	0000	44	-	BERG	HAS		ATTE FRADR WORD 4	
	200	000	200						
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	349	OSFEA	28650	10	175	BSS		IMU / + DELTA V	
	350		28652	10	176	HSS		IMU / - DELTA V	
	351			10	177	BSS		IMU / RAT - ROTOR SPEED	
	36.2	04660		10	121	000			
	363	04550			122	200			
	200	1	00000	0	777	200			
	324	1	09997	07	113	620			
	355	00110	79997	01	13	929			
	356	06118	58664	10	124	822			
	357	DEFFA	28666	10	128	HSS		DPU / AHRS PITCH	
	358	OSFFC	28668	10	120	888		OPU / AHRS HOLL	
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	359			2		USE	2		
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DIAGNOSTICS	LINE	DHES	DADRES	_	PROGRAM				SOUR
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	422	0070	124	2	02000000		HEX	500000	
	423		126	N	E5000000		HEX	00000	
	454	0000	128	١٨	52000000		X	0000	
	425	0082	130	10	00000000		HEX	0000	
	426	00084	132	12	00000000		IEX		
	427	000086	134	2	00000000		HEX	0000	
	428	0000	136	N	A5000000		HEX	0000	
	624	0000	138	~	26000000		HEX	0000	
	430	00000	140	2	75000000		HEX	0000	
	431	000BE	142	~	85000000		HEX	0000	
	432	06000	144	2	00000056		HEX	0000	
	433	26000	146	2	36000000		HEX		
	434	76000	148		46000000		HEX		
	435	960	150		20		HEX	26000000	
	436	860	152		0000		HEX		
	437	A600	154		000		HEX	600000	
	438	2600	156		0000		HEX	000009	
	439	3600	158		0000		HEX	600000	
	055	0000	160		0000		HEX	0000	
	441	0042	162		00		HEX	00000	
	4	00044	164		3000		HEX		
	443	0040	166		000000		HEX	0	
	444	000A8	168	2	F000	C30823	SCLB		
	445	0000 AA	170	2	0000	C10523	SCLB	8.0	
	446	ODODAC	172	~	200	S1432	SCLB	9	=1.03125
	155	OCONE	174	~	40600000	F 304	DEC	0	
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	7 1	26000	178	v	00310000	SWMSK	HEX	000	
	420	000	180	v	3 (	LIKMSK	I EX	000	
	421	2	781	V	3 0	TALMSI	1	000	
	425	88000	-	7	01660000	HATMSZ	HEX	000	
	453	0000BA	-	N	7E000000	MATMS	IEX	000	
	100	00000	-	V	0000 4400	FMSK	I X	000	
	455	0000BE	-	v	0000 4000	MOMSK	I Y	0001000	
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	695	00000	218	2	FFF00	OFFF	I	000	
	470	00000	220	2	999	FF 3F	HEX	FFFFF3	
	471	90000	214	~		FAIL	EGU	OFFO	
	472	0	222	2	4F 0CC003	POCCI	HEX	4F0CC003	
	473	00	554	~	0	POCC	HEX	0F04400B	
	1.71.	0				-			

SOURCE

0F02000D 0F00000F 400F0000 0F000000 FF7FFFF 4/0.10.11.18/500L 4/0.10/9.18/510L-2 4/0.10/9.18/510L-2

DIAGNOSTICS LINE AUPES UADRES LC PHUGHAM
475 000E4 228 2 0F000000 PICC2 477 000E6 230 2 0F000000 PICKST H
477 000E6 232 2 4000000 MSK2 H
478 000E6 234 2 0F000000 MSK2 H
479 000EC 236 2 FFFFFF F F01ZEH H
480 2 2 0F000000 MSK2 H
481 2 2 0F000000 MSK2 H
483 2 PICS V
483 2 PICS V

DECK NAME=\*RTEXEC\*

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DECK NAME=\*RIEXEC\*

VERSION K20A0503

SOURCE	INITIALIZATION FOR GEANS SKC-2000 EXECUTIVE ROUTINE			CLEAR STATUS MEGISTER	PT STATE	INITIALIZE LOUP	LOAD ADDRESS OF COUNT DOWN	STORE IN RETURN ADDRESS	KIA IMKO KETUKN ADUKESS	GO HACK FOR ANOTHER	SET (XR6) TO ADDRESS OF STACK			SEI ALL ENIKIES IN VECI 10 "CALL DOMI"			SET RETURN JUMP FROM VECT	INITIALIZE SYSTEM VARIABLES	INITIALIZE SKC-2000 CDU FLAGS				RESET DMA INPUT AND OUTPUT CHANNELS	SET ONE MOT DEADY FLAG	SEL UMA NOI READITEND	SET INTERRUPT 4.5. AND 10 MASKS		EANU=0	EKKCNT=-1	ENABLE MEMORY INTERRUPTS	WAIT FOR FIRST 32 HZ INTERRUPT		NS HENE		EXNO SET TO NOW - ZERO		CHECK ITEM FOR 1/4 SECOND		
	ALIZATION FOR GEAN	USE 3	VEN FXORG	LUS ZEHO	CLEAR PROCESSOR INTERRUPT STATE	DX 5.30.M		STA RINORG.S		MN 5,2,7					JAN SIZIN			IS BOST			INITIALIZATION	LUA PCCHST	00A 4	00A 5				SIA EXNO			• 00		SKC-2000 EXECUTIVE BEGINS HENE		STA EXNO			UN NORSE I	LDA TWO
	* INITI	)	a c	EXEC		•	EX00 L			KINCLK	, ,	7		Ex01 S		, -	3.0	•	יי	•	* SEA I				n							•	* SKC-2		Ex30				
PROGRAM		3		3 90010010		SCZADOJE	3400780A	3 3EBOTFEO	3 76807FE0	56CZHU002	3 5C323FFE		3 1400000C	3 3E800174	66307814	14000008	3 30000194	44040244	3 640400F6			3 140000E6	4850		3 0301	3 FC030218		3 30000032	3 30000016	3 0060	3 6000			0010	3 1400000A	3 14000060	3 84000014	3 6106	3 1400000C
DADRES LC		c.		30720		30722	30724		30728	30730			30738	30740	30746	30746		30750	30752						30758		30762	30764	, ,		30771				30774			30782	30784
AURES				07800		07802				0780A					01810			07816	07820						8 07826	07828		07820			07833				07836			1 0783E	07840
ICS LINE		485	486	100		084	064	491	492	664	495	964	165	864	000	200	505	505	504			505	206	205	208	605	210	215	515	514	515				517	519	520	521	525
DIAGNUSTICS LINE AURES DADRES																									GENERATER	SENERALE								GENERATED				CENEDATED	200

	4 SECOND				R TABLE	INE	
	IMER AT 17	ABLE	INTERRUPTS		SUTE VECTO	REACE ROUT	
	SOURCE RESET WATCHDUG TIMER AT 1/4 SECOND	EXECUTE VECTOR TABLE	DISABLE PROGRAM INTERRUPTS	EXNO=CYLE	KNO.NE.O EXEC	CALL PDP-11 INTERFACE ROUTINE WAIT FOR NEXT 32 HZ INTERRUPT	
	RESET	EXEC	DISA	EXNO	IF E	CALL	
	21	VECT		CYLE	EX30	DEC Ex70	2
	DOA	J.	140	LDA	I Z	s 3	HSS
		NORSET	# Ex30A			Ex70	
TEXEC*	PRUGRAM 48A8	524 07844 30788 3 64300174 NORSET	525 07846 30790 3 0100	3 1400004A	3 0200	3 64045600 EX70 3 6082	
E = *K	27	6	9	20	m m	m m	•
DECK NAME=*HTEXEC*	DADRES 30786	30788	30790	30792			
DE	AURES 07842	07844	07846	07848 0784A	0784C	0784E	12210
A0503	L1NE 523	554	525	526	528	530	532
VERSION K20A0503	DIAGNUSTICS LINE AURES DADRES LC PROGRAM 523 07842 30786 3 4888	GENERATED	CHACANAG				0

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VERSION K20A0503

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										3RD ENTRY OF VECT = "CALL CDU"	
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										/ECT	
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	INITIALIZE SUBROUTINE COU		CDUI		CDUIN	20	US1	185	<b>GMCO</b>	CT +4	OI+
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INE		534	535	536	537	538	539	540	541	545	543
S											
0571											
DIAGNOSTICS LINE ADRES DADRES LC PROGRAM											
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	SOURCE	SKC-2000 CDU ROUTINE. SYNCHONIZES SKC-2000 ALIGNMENT WITH HONEYWELL ALIGNMENT			IF CDUSI .NE. 0 BYPASS SW3 TEST		IF SW3 IS ON CALL FENT IMMEDIATELY IF COUSS NO. 0 TEST FOR 601 ALTERMENT DEFENTRY		IS MODE SET FOR ALIGNMENT	IF MODE .LT. 4 SYSTEM IS IN NAV SYSTEM STILL IN ALIGN - RETURN	SYSTEM IN NAV - SET CDUSZ NON ZEMO				HAS 601 RE-ENTERED ALIGN		NO - RETURN	GET PUSHBUTTON SWITCHES	HAS ALIGN STARTED	NU - RETURN	YES - PREPARE TO CALL FENT	CUUS1=1	INITIALIZE FUR ALIGN - PUT	XETURN	MODE CONCELLED TOO	SAIFT MODE SWITCH TO 'A' REGISTER	MASK OUT GARBAGE	MODE = MODE FIELD FROM SIDL	KETURN					
		SKC-2000 CDU ROUTINE HONEYWELL ALIGNMENT	con	71100	CD051	04000	CDU30.3	02000	MODE	FOUR CDUIO	JAN C	CDUSZ	CDUIN	MODE	FOUR	C0021	CDUIN	31.M	25.M	CDU31	ONE	CDUS1	FENT	CDUIN	CDU41.0	15.	SEVEN	MODE	COUIN	CDU42.1				
		NETWELL	USE	EVEN	LDA	3	JGW LDA	N	LDA	Seu	401	STA	ATA	LDA	SBU	96	KTA	LUA	SBU	3	40	STA	Sr	RTA	JGW	SLLD	ONA	ATA	RTA	JGW	900	200	NOP	202
				100	200			,					CDU10	CDUZO				CD021			Chica		•	CDU31	CD040				•	CDU41				
TEXEC*	PHUGHAM			2000000	9000	612C 0700	6594012C 14000008	610E	040000001	E4000010	0700	3000008	74000002	1400006C	2 E4000010	6204	74000007	140000C4	E4020019	6108	0000000			74000002	64180140	54006116	0700			6498014A CDU41	0010	0010	0010	0100
*	07		~			2	20.	2		NN		10	2	2	2	~	2	20	v n	2		v	2	2	2	N		40	10	2		v		2
DECK NAME=*HTEXEC*	DADRES			0 70	292	564	266	270	272	274	0 10		282	284	586	288	290	262	246	598	000	305	304	306		310	1 716	314	318	320	322	374	325	326
90	ADHES (				00100	00100	0010A 0010C	0010E	00110	00112			0011A			00150		00124	92100	0012A		0012C		00132	00134				0013E	00140		00143		00146
503	INE		545	247	240	250	551 552	553	554	555	2	25.2	559	560	561	295	563	564	200	567	0	200	270	571	572	573		575	577	578	579	280	585	583
VERSION K20A0503	DIAGNOSTICS LINE ADMES DADRES LC					GENERATED			GENERATED		GENERATED					CEMEDATED	GENERALED				GENERATED						GENERATED							

DECK NAME=\*RTEXEC\*

VEHSION K2040503

		•			ALIGN				NAN	
OURCE	ERE				ENTER				ENTER	
3(	POP-11 SUPPLIED MODE PICKED UP HERE	RETURN			MODE=4 : ENTER ALIGN	RETURN			MODE=3: ENTER NAV	
	PPLIED MODE	CDUIR	CDU43.2	1001	MODE	CDUIR		THREE	MODE	CDUIK
	0P-11 SU	RTA	M90	LUA	STA	ATA		LDA	STA	A TA
٠	•		CDU42				•	CD043		
PHOGRAM		0700	2 65180152 CDU42	14000010	2 3C00006C	74000002		2 1400000E CDU43	3C00000C	200000042
CC		~				2				
DADRES		328	330	332	334	336		338	340	345
ADRES		00148	0014A	0014C	0014E	00120		00152	00154	00156
LINE		584	585	586	587	588		589	290	261
DIAGNOSTICS LINE ADRES DADRES LC PROGRAM		GENERATED								

	SOURCE		HOUTINE. PROCESSES 32 HZ INTERRUPT.	\$ SAVE S	*SAVE		.1 *TEST FOR DMA NOT READY		*START DMA GUTPUT			STAKE DWA INPUL		SET NOT READY FLAG				*RESEL DMA STATUS WORD		SHESTORE ASH.S	*			10 INITIALIZATION OR FIXUP	CLEAR CARRY BIT		*INCREMENT EHRUR COUNT		*BEGIN SETTING OF DMA STATUS			TEST FOR DEDIT			RESET SOUL ERROR BIT		CTO 31 GOD TOTA	VIEST FOR IEUIC			RESET SIDL TURGUE ERROR BIT			*TEST FOR IEUT3			
			10 ROUTINE	VASAMO	DMASAV+2	UMASAV+4	NOTRED.1	Pocc1	+	10010	1771	n	DMASAV	68	UMASAV	DMAERR	16.₩	UMAERK		DMASAV+2	DMASAV+4	UMASAV	RET10		ONE	ERRCINT	1.4	ERRCNT	15.M	,		מו	1000		30 · M		s i	26	MADE		M.62			83	NK03		
		EVEN	INTERRUPT 10	212	STA	STB	JGF	LDA	DOA		LUA	ACC	104	LOR	STA	LDA	AND	STA	200		10H	1.05	KTA	INTERRUPT	ADO		ADO	STA	407	OIA		SAS	FAB		ANO	EAB	DIA	SAM	000	047	AND	EAB		SAM	160	EAB	
		•																		TIOFNO	1105,40				NOTRED												NRDI							NRDS			
DECK NAME=*RTEXEC*	PROGRAM			00000000	30000000	7C00000E	6448017E	140000DE	4820	0020	140000EZ	4828	14000004	04000010	3C00000A	14000014	84020010	30000014	0000	16.000000	340000F	9C010004	74007FF4		A400000A	14000016	44020001	30000016	5402000F	4822	0010	8000000	0500	0010	8402001E	0200	482A	8000000	6430019E	0000	84020010	0200	0020	AC000000	643001AB	0000	0010
EI	7				10				2			V		1 1				No		vn			12				2		2				0 0		2				v 0		2			2			
CK NAM	DADRES			34.4	346	348	350	352	354	100	356	358	340	362	364	366	368	370	27.0	37.5	370	378	380		382	384	386	388	390	345		394	358		004	705	403	101	404	101	410	412		414	416	410	
DE	AURES			15100	00154	0015C	0015E	09100	00162		50100	00100	99100	00164	00160	0016E	00110	00172	100	00176	00178	00174	00170		0017E	00180	00182	00184	00186	00188		00100	0018F		06100	26100	00193	56100	96100	06100	0019A	0019C		0019E	00140	001AC	
0203	LINE	593		20%	295	296	245	298	665		000	601	204	603	604	609	909	209	000	600	100	275	613		414	615	616	617	618	619		079	622		623	429	625	979	179	970	629	630	,	631	632	633	
VERSION K20A0503	DIAGNOSTICS									GENERATED		CENEDATED	DENERALED																		GENERATED			GENERATED						GENEGATED	SENERALES		GENEHATED				GENERATED

0	
d	
0	

AURES DADRES	635 001A4 462		00148		001AC	001AD	540 001AE 430	641 00180 432	642 00182 434	643 00184 436		00186	545 00188 440	546 001BA 442	647 0013C 444			650 001C2 450		40100		653 001C6 456	1000	655 001CC 460	656 001CE 462		00102	00104	00100	00108	60109	0010A	00100		00160	567 001E2 482		
C LC			7				2	2	2 +	2 5			2 0		7 +			0 2																				
PROGRAM	0200				1900			3C007FC2	140000E0	4820	00/0							4855			2 64300102			2 140000F0	2 3C007FC2					2010						2 61EC	0010	
			NADS															43D4														NROS						
ONA	EAB	•	200	400	400	DOA	LDA	STA	LOA	DOA		LUA	STA	LOA	STA	LDA	STA	OIA		SAM	760	000		LDA	STA	LOA	AND	A .	LUA	2	or or	LDA	ADD	STA	LUA	Z		
M. 75		Goden	DAREAR	4	* (	2	2006	APOIC+2	PUCCZ	,		P0C1	APOIC	P102	APOIC+10	PIC3	APOIC+12	4		95	NAU4	1		P0C2	APOIC+2	DMASAV	F GIZEK	UMASAV	FARCA	NRDS	IIOEND	CYLE	0.	CYLE	EXNO	IJOEND		
SOURCE RESET LAST SIDL ERROR BIT			SCIABL DAY INITIAL IZALION	ייטו שאו מש ואוו ושרונ איני						*START SCB PHOG. CONT. RESET									61030 003 20300	*CHECK FOR DEGIE							*KESEL NOI KEAUT FLAG		O TO CONCENT OF O					CYLE=CYLE+2		IS EXNO NON - ZENO		

55 LINE AUMES DADNES LC PHUGRAM 672 673 001EA 490 2 DC010010 INTOS 674 001EC 494 2 3C0000000 675 001EC 494 2 3C0000000 675 001EC 494 2 3C0000000 676 001F4 500 2 6C0000000 677 001F4 500 2 6C0000000 678 00200 516 2 6C0000000 678 00200 516 2 6C0000000 678 00200 516 2 6C0000000 678 00200 520 2 14000000 678 00200 520 2 14000000 678 00200 520 2 14000000 678 00200 520 2 14000000 678 00210 520 2 14000000 678 00210 520 2 14000000 678 00210 520 2 14000000 678 00210 530 2 14000000 678 00210 530 2 14000000 678 00210 530 2 14000000 678 00210 530 2 14000000 678 00210 530 2 14000000 678 00210 540 2 14000000 678 00210 540 2 14000000 678 00220 540 2 14000000 678 00220 540 2 14000000 678 00220 540 2 14000000 678 00220 540 2 14000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 54000000 678 00220 550 2 540000000 678 00220 550 2 540000000 678 00220 550 2 540000000 678 00220 550 2 540000000 678 00220 550 2 540000000 678 00220 550 2 540000000 678 00220 550 2 540000000000000000000000000											
672 673 674 675 677 677 677 677 677 677 677 677 677	AGNOSTICS	LINE		DADRES	LC					SOURCE	
673 001EA 499 2 0C010010 INTOS 674 001EC 492 2 0100 675 001EE 494 2 3C00000A 677 001F2 494 2 482A 678 001F4 590 2 6C00000C 678 001F4 590 2 6C00000C 679 001F4 590 2 6C00000C 670 002C 671 002C 672 002C 673 002C 673 002C 674 002C 674 002C 675 002C 676 002C 677 002C 67		672				,	0	EVEN			
673 001Ec 494 2 0100							Z.	TERRUPT	S ROUTINE. PRO	CESSES DMA INPUT COMPLETE INTERRUPT.	
677 001EC         492 2 0100         0P1         0P2           675 001EC         494 2 3000000         510         0M2SAV-2           676 001FC         496 2 482A         510         510           677 001FC         500 2 5000000         510         DMASAV-4           678 001FC         500 2 5000000         510         FAILMS           679 001FC         500 2 6 6000000         510         150           640 001FC         500 2 6 6000000         510         150           641 001FA         500 2 6 6000000         510         150           642 002FC         500 4 6 6000000         100         150           643 002FC         500 5 6 6 6 14000000         100         150           644 002FC         500 6 7 14000010         100         150           645 002FC         500 6 7 14000010         100         100           645 002FC         510 7 100         2 14000010         100           645 002FC         510 7 100         2 14000010         100           645 002FC         510 7 100         2 14000010         100           645 002FC         510 7 100         100         100           646 002FC         510 7 100         100		673				00010010	1NT05	STS	UMASAV+6	*SAVES S	
675 001EE         494 2 3C00000A         STA         DAASAV           677 001E         496 2 7C00000A         STA         DAASAV           677 001E         496 2 7C00000C         STA         DAASAV           677 001E         496 2 7C00000C         STA         DAASAV           678 001F         496 2 7C00000C         STA         DAASAV           679 001F         500 2 7C00000C         STA         FAILMS           640 001F         500 2 7C00000C         SAA         FAILMS           641 001F         500 2 7C00000C         SAA         FAILMS           642 001F         510 2 7C00000C         SAA         FAILMS           643 001F         510 2 7C00000C         SAA         CHOUND           644 0020C         510 2 7C0000C         SAA         CHOUND           645 0020C         510 2 7C0000C         STA         DMAERK           646 0020C         510 2 7C0000C         STA         DMAERK           647 0020C         510 2 7C0000C         STA         DMAERK           648 0020C         510 2 7C0000C         STA         DMAERK           649 0020C         510 2 7C0000C         STA         DMAERK           640 0020C         520 2 7C0000C         STA		574				0100		Ido			
675 001EE         494 2 3000000A         5TA         DASAV           676 001F0         496 2 482A         D1A         5TB         DASAV-2           677 001F0         496 2 482A         D1A         5TB         DASAV-4           678 001F4         496 2 482A         D1A         DASAV-4           678 001F4         500 2 2 6000000         SCHOOUDE         STA         FAILMS           691 001F4         500 2 2 6000000         SAGOOUDE         ADD         ERRCHT           692 001F6         500 2 2 6000000         STA         ERRCHT           693 001F6         510 2 2 6000000         STA         ERRCHT           694 00200         510 2 2 6000000         STA         ERRCHT           694 00200         510 2 2 6000000         STA         BACHTT           694 00200         510 2 2 6000000         STA         BACHTT           694 00200         510 2 2 6000000         STA         BACHTT           695 00200         510 2 2 6000000         STA         BACHTT           694 00200         510 2 2 6000000         STA         BACHTT           694 00200         522 2 6 6000000         STA         BACHTT           694 00200         522 2 6000000         SAM         BACH	NERATED					0010					
676 00 FG         496 2 7000000         576 00 FG         578 00 FG         578 00 FG         570 00 FG		675		161				STA	DABAN		
678 001F2 498 2 4824  678 001F4 500 2 5000000 540  678 001F4 502 2 80000015 544 1560T  691 001F4 502 2 80000015 544 1560T  692 001F5 502 2 80000016 1004 1560T  693 001F5 500 2 14000016 1004 1144  694 00202 514 2 14000016 1004 1004  695 00202 514 2 14000016 1004 1004  696 00202 514 2 14000016 1004 1004  697 00202 514 2 14000016 1560T  698 00202 52 2 6000002 1560T  699 00202 52 2 6000002 1004  699 00202 52 2 6000002 1560T  699 00202 52 2 6000001 1560T  699 00202 52 2 5000001 1560T  699 00202 52 500001 1560T  690 00202 52		919						578	UMASAV+2		
078         078         078           078         078         078         078           079         015         078         078         078           079         015         078         078         078         078           079         015         078         078         078         078         078           074         015         078         078         078         078         078           074         015         078         078         078         078         078           074         015         078         078         078         078         078           075         020         079         078         078         078         078           075         020         079         079         079         079         079           070         070         070         079         079         079         079           071         070         070         070         079         070         070           071         072         070         070         070         070         070           073         072         070         070		2119		490		4884		DIA	n		
678 001F4         500 2         2 500000E         STA         DMASAV44           647 001F6         502 2         2 6430021C         JGU         15E0T           648 001F6         504 2         2 6430021C         JGU         15E0T           648 001F6         510 2         2 6400000         LDA         1.8           648 002C6         510 2         2 6400001         LDA         1.8           649 002C6         514 2         2 1600001         LDA         1.8           649 002C6         516 2         2 6400001         LDA         DMASAV4           640 002C6         516 2         2 6400001         LDA         DMASAV4           641 002C6         520 2         2 6400001         EAU         DMASAV4           642 002C6         520 2         2 6400001         EAU         DMASAV4           643 002C6         520 2         2 6400001         EAU         DMASAV4           644 002C6         520 2 <t< td=""><td>NEMATEU</td><td></td><td></td><td></td><td></td><td>0020</td><td></td><td>,</td><td></td><td></td><td></td></t<>	NEMATEU					0020		,			
6479 001F6 502 2 8C000000 54M FAILMS FAILMS FAILMS FAILMS FAIL 001F6 504 2 64300212 54M FAILMS FAILM		9/9			~	SCOOOOOE		STA	DMASAV+4	SAVE DMA INPUT STATUS	
## 1500   1500		619			~	80000009		SAM	FAILMS	*TEST FOR NON-EOT	
661 001F4         506 2 44000000         AUU         ONE         ERHCNI           662 001FC         506 2 14000016         LDA         ERHCNI           663 001FC         510 2 44020001         AUU         LOB         ERHCNI           663 002C0         514 2 14000014         LDA         ERHCNI           664 002C0         516 2 14000014         LDA         ERHCNI           664 002C0         516 2 14000014         LDA         DMAERR           664 002C0         516 2 14000001         LDA         DMAERR           664 002C0         520 2 14000001         LDA         DMASAV+4           694 002C0         520 2 14000001         SAM         DA           695 002C0         530 2 14000001         LDA         DMASAV+4           695 002C0         540 00000         SAM         SAM           696 002C0         540 00000         SAM         SAM           696 002C0		080	-		2	64300212		760	15501		
645 001FC 566 2 14000016 LUDA EFRECNIT 645 001FE 510 2 44020001 STA EFRECNIT 655 001FE 510 2 44020001 STA EFRECNIT 655 00262 514 2 14000014 LUDA 240 00202 514 2 14000014 LUDA 240 00202 514 2 14000014 LUDA 240 00202 52 2 6000014 STA UMAERIC 656 00200 520 2 14000014 STA UMAERIC 656 00200 520 2 14000014 STA UMASAV44 STA UMASAV47 ST		581			2	A4000004A		400	ONE	CLEAR CARRY BIT	
643 001FE         510 2 A4020001         A00         L1*N           644 00200         512 2 50000016         STA         L1*N           645 00204         516 2 C4020002         L0K         DMARKH           646 00204         516 2 C4020002         L0K         DMARKH           647 00206         516 2 C4000004         L0K         DMASAV**           648 00206         522 2 CC000002         Exb         DMASAV**           649 00206         524 2 CC000002         Exb         DMASAV**           649 00207         524 2 CC000002         Exb         DMASAV**           649 00206         526 2 CC000002         Exb         DMASAV**           649 00216         528 2 CC000002         Exb         DMASAV**           649 00216         528 2 CC000002         DMASAV**         DMASAV**           649 00216         530 2 CC000002         SAM         DMASAV**           649 00216         534 2 CC000002         DMASAV**         DMASAV**           649 00216         534 2 CC000002         DMASAV**         DMASAV**           649 00216         534 2 CC000002         DMASAV**         DMASAV**           649 00216         542 2 CC000002         DMASAV**         DMASAV**           649 00217<		589		500	V	14000016		LDA	ERACNT		
654 00200 512 2 30000016 514 ERPC'11 655 00202 514 2 14000014 LDA 2*** 565 00202 514 2 14000014 LDA 2*** 566 00202 516 2 3000014 LDA 2*** 567 00202 52 2 6000002 EXA 362 62 64000016 EXA 363 62 62 62 62 62 62 62 62 62 62 62 62 62		583		510	N	A4020001		ADU	M•1	*INCREMENT ERROR COUNT	
645 00202 514 2 14000014 LUDA DMAERY 546 00202 516 2 C4020002 LUN 2248   566 00204 516 2 C4020002 LUN 248   567 00206 520 2 14000004   570 00206 520 2 14000004   571 00206 520 2 C400002   571 00206 520 2 C400002   572 2 C400002   573 00210 520 2 C400006   574 00210 520 2 C400006   575 00210 520 2 C400001   575 00210 520 540 2 C400000   575 00220 520 520 5 C400000   575 00220 520 520 520 0 575 00220 520 520 520 0 575 00220 520 520 520 0 575 00220 520 520 520 0 575 00220 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 520 0 575 00220 520 0 575 00220 520 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00220 520 0 575 00		684			2	30000016		STA	ERBCNI		
546 00204 516 2 C4020002 LUW 2.M 658 00206 516 2 3C000014 STA DMASAV44 658 00206 520 2 14000002 LUM BASA 659 00206 524 2 64000026 AND BASA 659 00206 524 2 64000026 AND BASA 659 00206 524 2 64000026 AND BASA 659 00206 525 2 C600002 BASA 659 00216 528 2 4628 659 00216 530 2 14000002 BASA 659 00216 534 2 64300224 LUM BASA 659 00216 534 2 64300224 LUM PICC 659 00216 534 2 64300224 LUM BASA 659 00216 534 2 6400001 BASA 659 00216 535 2 6400001 AND 659 00216 535 2 6400001 659 00216 542 2 6400001 659 00216 542 2 6400001 659 00216 542 2 6400001 659 00216 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 659 00218 542 2 6400001 650 00224 544 8 14000004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 00224 544 8 1400004 650 0		685		514				LDA	UMAERR		
658 00206         516 2 30000014         STA         UMAERK           658 00206         520 2 1400000L         EAD         UNASAV-4           659 00206         524 2 600000E         EAD         62           659 00206         524 2 640000E         EAD         62           659 00206         526 2 640000E         LOR         MSK2           659 00210         526 2 640000E         LOR         MSK2           659 00212         530 2 140000E         SAM         62           659 00216         534 2 6430624         LOR         UMASAV-4           659 00216         534 2 6430624         LOA         UMASAV-4           659 00216         536 2 6430024         LOA         PICCZ           659 00216         536 2 6430024         LOA         DMASAV-4           659 00216         536 2 6430024         LOA         DMAERK           659 00216         536 2 6400001         LUA         DMAERK           659 00217         546 2 6400001         LUA         DMAERK           700 00220         546 2 660001         JA         JA           700 00220         546 2 660000         JA         JA           703 00226         556 2 5400000         LOB         DMASAV-2 <td></td> <td>586</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>LOR</td> <td>2.M</td> <td>*SET SIDL TURK ERROR BIT</td> <td></td>		586						LOR	2.M	*SET SIDL TURK ERROR BIT	
658 00206 520 2 1400000L LUDA DMASAV+4 569 00206 522 2 CC000002 EXU MSK1 691 00206 524 2 840000EH ANU MSK1 694 00206 526 2 C4000EH ANU MSK1 694 00210 528 2 4428 695 00212 530 2 140000E 15EUT LUDA DMASAV+4 695 00212 530 2 140000E 15EUT LUDA DMASAV+4 696 00214 536 2 640000224 JGU PICC2 697 00214 536 2 64000014 698 00215 530 2 140000EH SPAM JSAM 699 00215 540 2 14000014 699 00216 542 2 84020010 698 00216 540 2 14000014 699 00216 540 2 54000000 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 6400010 699 00216 540 2 6400010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 64000010 699 00216 540 2 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 54000010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 699 00216 540 6400010 690 00210 640 6400010 690 00210 640 6400010 690 00210 640 640010 690 00210 6400		567		519	~	30000014		STA	UMAERK		
565 00202 524 2 6400000EH AND MSK1 651 0020C 524 2 6400000EH AND MSK2 652 00210 528 2 46280 653 00212 528 2 4628 654 00214 528 2 4628 655 00216 528 2 4628 655 00214 534 2 6400000E 15EUT LDA DMASAV44 655 00215 534 2 6400000E 15EUT LDA DMAERR 655 00215 534 2 6400000E 15EUT LDA DMAERR 657 00214 535 2 64020014 DUA PICC2 658 00215 534 2 64020014 DUA STA DMAERR 700 00220 544 2 5000014 DUA DMAERR 701 00222 546 2 14000004 15EUU LUA DMASAV47 702 00224 548 2 14000000 15EUU DUA DMASAV47 703 00225 550 2 54000000 15EUU DUA DMASAV47 705 00224 554 2 7400776A RTA REDS		658		520	2	1400000E		LOA	UMASAV+4		
691 0020C 524 2 640000EH AND MSKI 691 0020C 526 2 C40000EA DON MSKZ 692 00210 528 2 C4000EA DON S COLOR MSKZ 693 00210 528 2 C40000E 550 DON S COLOR S		599		525	2	CC000005		EXO	95		
691 0020E 526 2 C40000EA 100R MSK2 692 00210 528 2 4828 100A 55 693 00212 530 2 140000E 15EUT LUA 62 694 00214 532 2 640000224 10EUD 15EUD 695 00215 536 2 140000E 696 00215 536 2 140000E 697 00214 536 2 14000014 10A 55 698 00215 540 2 14000014 AND 2948 701 00224 542 2 54000000 15EUD 10A DMASAV 702 00224 548 2 1400000 15EUD 10A DMASAV 703 00224 548 2 1400000 15EUD 10A DMASAV 705 00224 554 2 74007FEA FTA FTA FETUS		940		554	2	84000058		AND	MSK1		
692 00210 528 2 4828  693 00212 530 2 1400000E 15EUT LUBA DMASAV-4  694 00214 532 2 600000E 15EUT LUBA DMASAV-4  695 00215 534 2 64300224 JGU ISEUD  695 00215 534 2 640000E 15EUT LUBA DISEND  696 00215 534 2 640000E 15EUT LUBA PICCE  697 00214 534 2 14000014 AND 29-M  700 00220 542 2 64020010 AND 29-M  700 00220 542 2 6400000 JSEND LUBA DMASAV-2  703 00224 548 2 14000000 ISEND LUBA DMASAV-2  703 00224 548 2 14000000 ISEND LUBA DMASAV-2  705 00224 554 2 74007764 FTA HTA HEDS		691	-	526	7	C40000EA		LOR	MSKZ		
093 00212 530 2 1400000E 15EUT LUA DMASAV-4 694 00214 532 2 6C000002 5AM 62 695 00215 534 2 6430024 LUA PICCZ 695 00215 536 2 4628 696 00215 536 2 4628 696 0021C 540 2 14000014 AND 29-M 700 00220 544 2 3C00014 AND 29-M 701 00222 540-0000 15END LUA DMASAV-2 703 00224 544 2 14000004 15END LUA DMASAV-2 703 00224 555 2 540-0000 15END LUA DMASAV-2 705 00224 555 2 2 7010010 LUA HTA HERY		249		528	~	4858		DOA	2	*RESET NON-EUT INTERRUPT	
993 00212 530 2 1400000 15E0T LOA DMASAV44 694 00214 532 2 6C000002 5AM dd2 695 00216 534 2 6430024 15E0T LDA PICCZ 695 00218 536 2 1400006 2 100A PICCZ 696 0021C 540 2 1400001	NEHATEU					0020					
694 00214 532 2 6000002 54M 452 695 00216 534 2 60300224 JGU 15ENU 696 00218 536 2 14000064 DUA 5 CC2 697 00218 536 2 14000014 DUA 5 CC2 698 0021C 540 2 14000014 ANU 29.MAERR 701 00224 542 2 64020010 JS TA 1046 702 00224 546 2 14000004 ISENU LUA DMASAV-2 703 00224 554 2 7400768 HTA RETA		663				14000000E	ISEOT	LDA	UMASAV+4		
695 00216 534 2 64300224 JGU IJENU FICZ 695 00218 536 2 14000064 LDA 5 FICZ 696 00218 536 2 4628 DJA 5 FICZ 696 00218 540 2 4628 DJA 5 FICZ 696 00218 540 2 14000014 LDA 5 FICZ 696 00218 540 2 14000014 LDA 5 FIA DARERE 701 00222 540 20000 JSENU LDA DARSAVE 702 00224 548 2 14000000 ISENU LDA DARSAVE 703 00226 550 2 5400000 ISENU LDA DARSAVE 705 00224 554 2 74007784 FIA FIA FELSS		460	-		N	BC0000058		SAM	95	*TEST FOR JEUT2	
696 00216 536 2 140000E4 LDA PICCZ 697 00214 538 2 4828 DUA 5 698 00215 540 2 14000014 LDA DMAERR 699 00215 540 2 14000014 AND 2948 700 00220 544 2 3000014 STA DMAERR 701 00222 546 2 64040000 JS TOWK 702 00224 548 2 1400000A ISEND LDA DMASAV 703 00225 550 2 54000000 LDA DMASAV 705 00224 554 2 74007F6A RTA RETUS		645			2	64300224		760	ISEND		
696 0021C 540 2 14000014 LUA DMAERR 699 0021C 540 2 14000014 LUA 29.M AND 29.M AND 699 0021E 542 2 5000014 AND 29.M DMAERR 701 00224 544 2 5000014 STA DMAERR 701 00224 546 2 14000004 ISENU LUA DMASAV. 703 00224 554 2 7400775A RTA RETA RETUS		646			2	140000E4		LDA	PICCZ		
696 0021C 540 2 14000014 LUA UMAERR 700 0021E 542 2 84020010 ANU 29.M 29.M 700 0022U 544 2 50000014 STA UMAERR 701 00222 545 2 64040000 US TA UMAERR 702 00224 546 2 1400000 ISENU LUA UMASAV 703 00226 550 2 5400000 LUA UMASAV 705 0022A 552 2 5400001 LUA MASAV 705 0022A 554 2 74007FLA HTA HEIUS		169				4828		DOA	2	*MODIFY INPUT CONTROL WORD	
0021C 540 2 14000014 LUA 29,47 10021E 542 2 8402001U ANU 29,47 100222 542 2 8402001U 55 10 100222 545 2 6404000 15 10 10 10 10 10 10 10 10 10 10 10 10 10	NERATED					0020					
0021E 542 Z 8402001U ANU 29,7M 0022U 544 Z 3C000014 STA DJAERH 0022U 544 Z 3C000014 STA DJAERH 0022U 544 Z 5C00010 JS TORK 00224 548 Z 1400000A ISENU LUA DMASAV 00224 552 Z 9C010010 LUB DMASAV 0022A 554 Z 74007FEA HTA HETUS		698				14000014		LUA	DMAERR		
00220 544 2 30000014 STA DJAERK 00222 545 2 6404000 JS TUMB 00224 546 2 1400000A ISEND LDA DMASAV **RESTORE 00225 550 2 5400000 LDB DMASAV*2 ** 00226 554 2 7400761 LDS DMASAV*4 **		669	-	245	2	84020010		AND	×.62	RESET SIDE TORK ERROR BIT	
00222 546 2 64040000 JS TORK 00224 546 2 14000004 ISEND LDA DMASAV **RESTORE 00226 550 2 5400000C LDB DMASAV*2 ** 00228 552 2 90010010 LDS DMASAV*6 ** 00224 554 2 74007FEA FIA HETUS		200			2	30000014		STA	DAMERK		
00224 548 2 14000004 15ENU LDA DMASAV *RESTORE 00225 550 2 5400000 LDB DMASAV2* * *********************************		701	700	540				75	TORK		
00226 550 2 540,0000 LDB DMASAV+2 00224 552 2 9C010010 LDS DMASAV+6 00224 554 2 7400/FEA HTA HE105		102					ISEND	LUA	UMASAV		
00226 552 2 9C010010 LDS DMASAV+6 00224 554 2 74007FEA RTA RETUS		7.03			N	5400000C		100	DMASAV+2	٠	
00224 554 2 74007FEA RTA		704			2	90010010		LUS	DMASAV+6	٠	
		705			2	74007FEA		ATA	RETUS		

DECK NAME=\*HTEXEC\*

VERSION K20A0503

S			10			DMA OUTPUT STATUS						*ERROR INTERMUPT RESET		כשעעו פון	* INCREMENT FREDR COUNT			SODL EHROR BIT			*TEST FOR DEUTI			KESE! SOUL ERROR BII			*TEST FOR LEUT3		orre county our	בסצב				*SET LAST SIDL ERROR BIT			*INCREMENT ERROR COUNT		*RE-INITIALIZE DMA							
*SAVE		*SAVE	#SAVE			*SAVE	*TES1					*ERKC	0.0	CLEAR	* INCR			#SET			#TES		11000	KESE			*TES		1000	KESE! UMA				*SET			*INC		* HE							
UMASAV+8		UMASAV	UMASAV+2	t		UMASAV+4	FAILMS	14501	MSK1	85	MSK2	4		ONE	FRACE	FARCINT	DMAERR	N	DMAERK	UMASAV+4	91	IAEND	DMAERK	30 · M	UMAERK	,	63	145011	DMAERR	19.M	CHARRY	710347	OMAERR	W. 7	UMAEKK	ERRCNT	1.M	ERRCNT	PCCHST	4	5	P0C1	APOIC	P002	APOIC+4	
STS	140	STA	STB	DIA		STA	SAM	J6U	AND	EXO	LOH	DOA		ADO	LUA	714	1 DA	100	STA	LOA	SAM	160	LDA	AND	4 4		SAM	760	LDA	AND	STA	20	LOA	LOR	STA	LDA	ADO	STA	LUA	DOA	DOA	LDA	STA	100	STA	
401v1																				14501													145011						145012							
DC010012 INT04	0100	3000000	20000002	4422	0010	3C00000E	80000008	64300252	H40000FB	CC000002	C40000EA	4820	0010	4400000A	14000018	1000001	14000014	1000001	30000014	1400000F	80000000	643002A2	14000014	8402001E	30000014	0010	8C000004	6430026C	14000014	84020013	30000014	0700	14000014	000000000000000000000000000000000000000	3000014	14000016	44020001	3000016	140000E6	4820	4828	140000EE	3C007FC0	140000F0	3C007FC2	
	2	,		10			1							2		vo			10				2	2		v	2		2		N		^	10	11	10	10			2	2	2		2	N	
929	558	045	245	200		566	268	570	572	574	576	578		280	585	190	0 0	000	275	200	296	865	009	209	509	0/10	608	610	612	614	919	919	620	673	624	626	624	630	632	634					249	
0022C	DUZZE	00000	00000	00234		00236	BE200	0023A	00230	0023E	00240	00242		00244	00246	84200	37200	3+200	00250	00253	0.0254	00256	00258			20200	09200	00262	99200			00264	00260		00270							0027C			00282	
708	502	710	711	112		713	714	715	716	717	718	719		120	121	120	72%	125	725	127	120	\$25	730	731	732	133	734	135	736	737	738	133	740	741	142	743	744	745	745	747	748	547	750	751	752	
		GENERATED			GENERATED	27.00							GENERATED													GENERATED	25 15 15 15 15 15 15 15 15 15 15 15 15 15					000000000000000000000000000000000000000	GENERALED													

DIAGNOSTICS LINE		UADRES	27	ADRES UADRES LC PROGRAM				SOURCE
755		949		2 140000F4		LUA	PIC3	
756		059		2 3COOTFCC		STA	APOIC+12	
757		652		2 14000012		LOA	UMASAV+8	
158		654		2 840000EC		AND	FUIZER	**ESET DMA NOT READY FLAG
159		656	N	30000012		STA	UMASAV+8	
760	26200 0	658		2 14000032		LOA	EXNO	*BEGIN EANO TEST
761	-	099		6108		25	I 4E XNO	
GENERATED				0010				
762	96200	999	~	2 34007836		LAE	E.X30	SET RETURN TO CALL EXECUTIVE
753 (	96200 8	999	·	2 3COOTFEB		STA	RET04	*MODIFY RTA PTR FOR EXEC
164	46200 ·		~	5008		20	I4END	
GENERATED				0070				
765	36200 V	668	2	2 1400004A 14EXNU	14EXNO	LOA	CYLE	
766	36200 °	019	N	A400000A		ADO	ONE	
767	00240	672	v	3C00004A		STA	CYLE	CYLE = CYLE+1
168	SUUZAZ	674	N	14000000 14END	14END	LDA	UMASAV	**ESTORE A.B.S
169	002A+	676	N	2400000C		LDB	DMASAV+2	
170	00246	678	N	90010012		LDS	DMASAV+8	
771	00249	5HO	4	7400756		0.17	2F T 04	

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DECK NAME = \*H [EXEC\*

VERSION K2040503

SOURCE	SUBPOUTINE BUSI. INITIALIZE BUILT-IN TEST, DATA DECODE, AND AUTO SEQUENCING.			=U; BCTR=BNBK=MCTR=U; HULD=MALF=MLFN=0; =U; BER]=BER2=BER3=BER4=0		OF 805(1) AND BMK(1) I=1+4+ FROM TABLE BTIN	BDS(I)=BTIN(I) I=1.4	SRT1=SKTZ=KATP=KATM=0; ROT1=ROTZ=0; DVXG=DVYG=DVZG=0; DVVV=DPDV=DPHY=0; GMT=0; dTE1BHTE2=BTE3=BTE4=0; R1CT=R2CT=CIPM=RAT=RATL=0; DVX=DVY=DVZ=0; CYLE=VRTV=DRFV=HDGV=0		CTR1=CTR2=CTR3=0; TIME=ITER=PHAS=0; NAVF=DATA=PUSH=TEST=0			T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		014  DATA = 0 $025  DATA = 0$	PICK UP SWITCHES FROM SIDL SHIFT MODE SWITCH TO 'A' REGISTER	MASK OUT GARRAGE	MODE = MODE SWITCH FROM SIDL	2ND ENTRY OF VECT = "CALL DECD"
	BDSI. IN	2 8081	BDSIN	BLP1=8LP2=BLP3=BLP4=0; CM01=CM02=CM03=CM04=0;	5.34.M BLP1.5 5.2.M BUSII	INITIAL VALUES OF	5.14.M BTIN.5 BDS1.5 5.2.M 60S12	RATP=HATM OPHV=0: G CIPM=RAT=	2E+0 5+80+M 5471+5 5+2+M 80514	CTR3=0: T	5.20.M	5+2+M	KL17	ZENO	014•1	13F	SFVFN	MODE	VECT+2
	SUBROUTINE BDSI.	USE	LOAKEN	LP1=6LP2= MU1=CMU2=	STA STA IMN JGU	SET INITIA	LUA STA 1MN	RTI=SRTZ= PVV=DPDV= ICT=R2CT=	LDA LDA STA IMN	TR1=CTR2=	LOX	I MN	LOA	LDA	STAH	108 SLLD	AND	STA	STA
	v • • •		1508	10	40SI1	· · ·	80512		41S08	• • •	80515								
PHUGHAM			00000000 BD\$1		5C2A0022 3E800018 5C2B0002 643002B0		5C2A000E 16800016 3E800000 6C2B0002 6430028		1400001C 5C2A0050 3E800000 6C2B0002 643002C4		SC2A0014	643002CC	14000026 3C00006F	14000010	3C0100AD	54006FF6 0810	0700	3C000006C	30000176
2		~	22		2222		~~~~		~~~~		~ ~	200	NA	2	NN	~~	~	N	12
ES DADRES LC			584		688 688 690 692		694 696 700 702		705 705 708 710 712		714	718	722	726	730	732	736	738	742
AURES			002AA		0024E 00280 00282 00284		00286 00288 00284 0028C 0028C		002C0 002C4 002C4 002C6		002CA	002CE	50200	00500	00208 00208	0020C	00250	002E2	00256
		773	21. 31. 11.		778 779 780 781		782 783 785 785		787 788 789 790			794							908
DIAGNUSTICS LINE																	GENERATED		

	SOURCE		STH ENTRY OF VECT=SPIN		71H ENTRY OF VECT=BITE		14TH ENTRY OF VECT=GASC		INEA		INITIALIZE COUNTER		SODL (N) = SODLIN(N)	DECREMENT COUNTER	GO BACK FOR ANDTHER	
		SPINJM	VECT+8	BITEJM	VECT+12	GASCJM	VECT+26		INITIALIZE SOUL DATA AREA		5,126,M	SOULINS	S001.5	5,2,M	80SIo	RDSIA
		LUA	STA	LDA	STA	LOA	STA		INITIALIZE		LOX		STA		760	RTA
								*		•		60516				
TEXEC*	PROGRAM	14000014	3C00017C	1400000E	30000180	14000012	3C00018E				SCZADOTE	16800028	2 35800072	2 66280002	2 643002F6	766 2 74000000
¥	LC	2	N	~	2	v	2									^
DECK NAME=*RIEXEC*	DADRES	744	746	748	750	752	154				756		760		164	
	AUMES	00258	OUZEA	DUZEC	DULEE	002F0	002F2				813 002F4	00256	615 002FB	DOZFA	817 002FC	818 002FF
VERSION K20A0503	DIAGNOSTICS LINE	807	808	608	910	811	812 002F2 754 2 3C00018E				813	414	615	816	817	ala

PAGE																																											
	SOURCE	(DECODE)	THIS ROUTINE UNPACKS THE SEKIAL DATA BUS (SIDL) INPUTS AND STONES THESE VALUES FOR USE BY OTHER PROGRAMS. THE BITE BITS ARE REPACKED FOR USE BY THE BITE ROUTINE. DIAGNOSTIC CHECKS ARE USED FOR VERIFICATION OF ROTOR SPEED AND DELTA VIS.						B1E3=B1E4≈0	PREPARE TO RESET TOROUING TIMER	LPTK*2		LPTK=LPTK*2	FREPARE TORGUING COMMANDS TO CHECK	TOWN TAKE TOWN THE	PUT BOTH WORUS IN A REG.		(A) = TORQUING COMMANDS	COMPLEMENT TURQUE TIMER			CHECK TO SEE IF BIT1 = BIT2					SET TORQUING BIT		65CT-1.03125	CHECK FOR GSCT .GT. 1 MINUTE		6SCT=6SCT+1/32 (ONE=SCI B 0.03125)		ADVANCE/RESET TORQUING TIMER	GSCT=TEMP2			FIG. SCIETO INCHES THO	SEI GIMBAL SIUCK BII	CHECK TURN AKOUND WORD	THE CHILD TO THE COLUMN TO THE CHILD		
		SUBMOUTINE DECD (DECUDE)	ESE VALUES FO KED FUR USE B VEHIFICATION	^			DECUR	ZEHO	B1E3	LEMPZ	1		LPTK	071-1	975	16		TEMP	NONE	1		TEMP	MSBMSK	5000	5000	ONE	LPTK	6SCT	51432	2000	1759	ONE	TEMP2	TEMPZ	GSCT	6000		BTE3	63	146	046	0010	0011
		SUb	THIS ROUTINE STORES THESE ARE REPACKED USED FOR VERI	115F	ENTRY	EVEN	PTR	L0A	SIA	S - A - C -	SLL		STA	ГОВН	LDA	SLLU		STA	ExO	SLL		EXO	AND	3	200	ADO	STA	100	Seu	90	401	400	STA	LDA	STA	20		LUA	N T Y	104	SBU	3	20
							DECD							٠											2000	2000								5000				1000		6000			
TEXECO	РИОСНАМ						+00000000	14000010	3000032	14000012	0841	0010	30000012	24010081	140000AE	0810	0010	30000014	CC000008	0841	00/0	41000000	0400000	5013	14000012	A4000000A	30000012	14000034	E400004C	920E	14000034	A400000A	30000016	14000016	30000034	6008		14000032	10000010		E4000072	6102	6007
9	LC			a				N C					v		N					~			40	4 1						v		N				2			y a			2 6	N
DECK NAME = * HTEXEC*	DADRES						768	770	777	776	778		780	185	784	786		788	190	192	300	104	700	7007	800	805	804	808	808	010	812	814	816	818	850	855	700	200	828	830	832	834	835
90	ADMES						00800	20600	10000	00308	0030A		00300	0030E	00310	00312		00314	00316	00318		0031A	00316	00 315	00350	00322	00324	00326	82500	00354	00320	0032E	00330	00332	00334	00336		00338	00330	0033E	00340	24600	00343
1503	INE.			950	921	855	953	456	950	827	828		520	000		935		633	476	832	25.5	000	200	200	140	145	845	843	1 1	0,0	946	244	848	646	920	921	000	853	854	855		857	
VERSION K20A0503	DIAGNOSTICS LINE ADMES DADRES LC											GENERATED					GENERATED			0.0000000	GENERALED									CENEDATED	DENEMALED						GENERATED						

Control of the August   Cont	VERSION KENAUSOS	AU503	O.E.	DECK NAME = * FIEXEC*	*	EXEC*				
### 83	VOSTICS	1	AURES							SOURCE
### 60 03-46 64 6 2 620000000000000000000000000000		828		836			0100	LOA	BTE3	
### 1003-56 003-		999		833		4000004		LO2	ONE	3154=1
### 60.0444 64-6 5 5 COUNTY   STATE		199		040				4	200	
### 100350 ### 2 10010033 0015 LUAN #H1311 #### 4 10010033 0015 LUAN UPPER TALF OF SIDL WOMD ### 100350 ### 2 10010033 0015 LUAN UPPER TALF OF SIDL WOMD ### 100350 ### 2 10010033 0015 LUAN UPPER TALF OF SIDL WOMD ### 100350 ### 2 10010033 0015 ### 100350 ### 10035		296		240			1100	רחץ	2.0.0	
## 10.355   6.46   6.45   6.00		200		344		0033	5100	LOAN	9153.1	
## 5 00.550 ## 2 50.00000 ## 5 00.550 ## 2 50.00000 ## 5 00.550 ## 2 50.00000 ## 5 00.550 ## 2 50.00000 ## 5 00.550 ## 2 50.00000 ## 5 00.550 ## 2 50.000000 ## 5 00.550 ## 2 50.000000 ## 5 00.550 ## 2 50.0000000000000000000000000000000000		400		040		1400		256	•	2.4.2
### STATE   COAD UPPER MALE OF SIDL WORD   COAD UPPER MALE OF	MIED					0010				
### 60.0354 639 2 FORBINES   104		992		0 40		30010033		SIAH	BIE3+1	
## 87 00355 635 7 2 40000000 AND FF MASK OFF UCF FIELD WITH SIDL		999		950		16816FEZ		LDAH	SIUL.S	
## 646 00355 ## 65 2 10510014		867		952	~	340000CA		DNA	44	MASK OFF UFC FIELD
## \$1,00356   856   2   1049   1070   2   1044   5   1044   5   1044   6   10		868		854	v	30000014		STA	TEMP	
### ### ### ### ### ### ### ### ### ##		699		856		16810072		LUAH	S001.5	LUAD UPPER HALF OF SODL WORD
### UPON SEC 860 2 F4000014		870		828	2	0848		SLL	00	ALIGN UFC FIELD WITH SIDL
### UPC FIELDS EQUAL	RATED					0010				
### UPC FIELDS EQUAL ####################################		871		860		4000014		SBU	TEMP	
### 17.00   1.00		472		862		5102		N	9100	ARE UFC FIELDS EQUAL
# # # # # # # # # # # # # # # # # # #		27.2		200		6007		; =	0017	
675 0356 666 2 4700000		2 2 2		200			4100	00		
# 75 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0		100			0100	100	50.00	016016.41
### 60.056 ### 67.00000 ### 67.00000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.0000 ### 67.00000 ### 67.0000 ###		010		900		400000		004	מיני	0154=0154-1
### 00366 ### 07 2 642840002 DOIT 164 5.644 ### 00366 ### 07 2 642840002 DOIT 164 5.644 ### 00366 ### 07 2 64280036 ### 0900 ### 00366 ### 07 2 64280036 ### 0900 ### 00366 ### 07 2 64280036 ### 0900 ### 00366 ### 07 2 64280036 ### 0900 ### 00376 ### 0307 ### 0307 ### 030		9/9		999	v			A I	8163	
### 872 2 2 423001C		877		870	v		1100	1	5,2,M	
### 00356 #74 2 64300346 JGU D020 ### 00356 #75 2 1400001C JUG2 LOA ZEFO ### 00356 #75 2 1400001C JUG2 LOA ZEFO ### 00356 #76 2 1400001C JUG2 LOA ZEFO ### 00357 #84 2 1400004A JN D021 ### 00374 #84 2 1400004A JN D021 ### 00375 #84 2 1400004A JN D021 ### 00376 #84 2 1400004A JN D021 ### 00377 ### 2 6400000 JUG2 JUG2 JUG2 CVLE.NE.0 ### 00377 ### 2 6400000 LDA JO. JUG2 JC. SET JUG OF TIME FLAG ### 00377 ### 2 64000014 JUG JUG2 JC. SET JUG OF TIME FLAG ### 00377 ### 2 64000014 JUG JUG2 JC. SET JUG OF TIME FLAG ### 00376 #94 2 14000014 JUG JUG JC. SET JUG OF TIME FLAG ### 00376 #94 2 14000014 JUG JC. SET		878		872	2	2429001C		ICL	5.28.M	
## 80 00356 #76 2 64300344		879		874	N	5430036E		760	0200	
θ51 0036E         θ78 2 1400001C 0020         LOA         ZEMO         CLEAK BITE BITS           θ82 00372         θ84 2 2 010007         DP1         DP2 1         DISABLE PROGRAM INTERRUPTS           θ83 00372         θ84 2 2 100004         DP1         DP2 1         DISABLE PROGRAM INTERRUPTS           R44 00374         θ84 2 1400004         DP1         DP2 1         DP2 1         DP2 1           R45 00376         θ84 2 2 1400004         DP2 1         DP2 1         DP2 1         DP2 1         DP2 1           R49 00376         θ87 2 1402001         DP2 1         DP2 1 <td></td> <td>980</td> <td></td> <td>876</td> <td>~</td> <td></td> <td></td> <td>760</td> <td>0015</td> <td></td>		980		876	~			760	0015	
### 98.0 2 30010007 STAN 0-0-1 CLEAR BITE BITS #### 00374 ### 2 14000044 LDA CYLE #### 00374 ### 2 14000044 LDA CYLE #### 00374 ### 2 14000000 D021 JU D022 CYLE=0 #### 00376 ### 2 14000000 D021 JU D023 CYLE=0 #### 00376 ### 2 14000000 D021 JU D022 NO - 60 SET UUT OF TIME FLAG #### 00376 ### 2 14000010 LDA DMAERR ### 00376 ### 2 14000010 LDA DMAERR ### 00376 ### 2 14000010 LDA DMAERR ### 00376 ### SET CYLE .GT. 2 FLAG ### 00376 ### SET CYLE .GT. 2 FLAG ### 00376 ### SET CYLE .GT. 2 FLAG ### 00376 ### SET OUT OF TIME FLAG ### 00376 ### SET CYLE .GT. 2 FLAG ### 00376 ### SET CYLE .GT. 3 FLAG ### 00376 ### SET CYLE .GT. 3 FLAG ### 00376 ### SET CYLE .GT. 3 FLAG ### 00376 ### S		881		878	2		0050	LOA	ZEHO	
### 00372 ### 2 0100  ### 00374 ### 2 14000044  ### 00374 ### 2 14000044  ### 00374 ### 2 14000044  ### 00374 ### 2 14000044  ### 00374 ### 2 14000044  ### 00374 ### 2 14000044  ### 00374 ### 2 14000044  ### 00375 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00376 ### 2 14000014  ### 00386 ### 2 14000014  ### 00386 ### 2 14000014  ### 00386 ### 2 14000014  ### 00386 ### 00386 ### 00386  ### 00386  ### 00386  ### 00386  ### 00386  #		885		980		3C0100C7		STAH	050+1	CLEAR BITE BITS
#844 00374 #844 2 14000044		883		882		0010		061		DISABLE PROGRAM INTERRUPTS
### 2 14000044   UDA   CYLE	RATED					0010				
## 645 00376 ## 646 2 6102  ## 60377 ## 6015  ## 60377 ## 6015  ## 60377 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60374 ## 6015  ## 60334 ## 6015  ## 60394 ## 6015  ##		834		984		1400000+I		LUA	CYLE	
### 6015 JU D023 CYLE=0 ### 2 E40000C D021 SGU TWO IS CYLE=0 ### 2 E40000C D021 SGU TWO IS CYLE=0 ### 2 E40000C D021 SGU TWO IS CYLE=0T IME FLAG ### 2 E40000C D021 SGU TWO IS CYLE=0T IME FLAG ### 2 E4000014 STA DMAERR ### SET CYLE .GT. 2 FLAG ### 2 E4000014 STA DMAERR ### SET CYLE .GT. 2 FLAG ### 2 E4000014 STA DMAERR ### SET CYLE .GT. 2 FLAG ### 3 CO394 STA DWAERR ### SET CYLE .GT. 2 FLAG ### SET CYLE .GT. 3 FLAG ###		845		888		5102		25	0021	CYLE.NE.0
### 687 00376 ### 2 E400000 D021 550 T#D IS CYLE .GT. 1  ### 00374 #90 2 6308  ### 00374 #90 2 6308  ### 00375 #94 2 64000014		845		887	2	6015		UC	D023	CYLE=0
888 00374 690 2 6308  889 00375 894 2 4002010  899 00376 894 2 4002010  899 00376 894 2 4002010  899 00376 894 2 4002010  899 00386 899 2 14002010  809 00386 899 2 14002010  809 00386 899 2 3000001  809 00386 899 2 3000001  809 00386 890 2 3000001  809 00386 890 2 3000001  809 00386 890 2 3000001  809 00386 890 2 3000001  809 00386 890 2 3000001  809 00386 890 2 3000001  800 00386 890 2 3000001  800 00386 890 30001		KHY		III			1200	580	Tw0	4.1
## 649 0037C ## 649 C 44000014		000		000				2 =	0000	200
849 0037C 892 2 14020010 LDA 16.M SET CYLE .6T. 2 FLAG 691 0037E 894 2 C4000014 LDA DAMERR 692 0037E 894 2 C4000014 LDA DAMERR 693 00384 900 2 C40000013 DU22 LDA BTE3*1 SET OUT OF TIME FLAG 693 00394 900 2 C4000001 LDA BTE3*1 SET OUT OF TIME FLAG 694 00386 906 2 3C010033 LDA BTE3*1 SET OUT OF TIME FLAG 695 00384 906 2 3C010033 LDA BTE3*1 SET OUT OF TIME FLAG 695 00384 906 2 3C00004A SEAU 696 00386 906 2 2C00004A SEAU 697 00386 906 2 2C00003E LDA GMT*2 698 00386 910 2 1400002E LDA GMT*2 699 00390 912 2 5000002E LDA GMT*2 690 00390 912 2 5000003E STB GMT*2 690 00390 912 2 500003E STB GMT*2 690 00390 912 2 500003E STB GMT*2 690 00390 912 2 500003F STB GMT*2 690 00390 912 5 500003F STB GMT*2 690 00300 912 5 500003F STB GMT*2 690 00300 912		000		040		0000		7	2700	3
#899 0037C 894 2 14000010	ANIED					00/0				
990 0037E 994 2 C40000194 10A DMARENA SEL CYLE .01. C FLAG 691 0037E 994 2 C40000194 10A DMARENA 692 00382 698 2 14010033 D022 LDAH 8TE3+1 693 00394 900 2 C40000100 LDA 8TE3+1 694 00386 904 2 14000010 LDA 8TE3+1 695 00386 904 2 14000010 LDA 2E40 695 00384 906 2 3C00004A 695 00384 906 2 3C00004A 696 00384 906 2 4C00004A 697 00386 910 2 14000010 LDA 6MT+2 698 00396 910 2 14000010 LDA 6MT+2 699 00396 910 2 5C000034 690 00396 910 2 5C000034 690 00396 910 2 60000 CFX 690 00396 910 6 7 7000010 CFX 690 00396 910 610 610 610 610 610 610 610 610 610 6		500		258		14050010		LUA	10.0	
991 00390 996 2 30000014 STA DMAERR 992 00392 100AH BTE3+1 SET OUT OF TIME FLAG 993 00394 900 2 2 30010033 D022 LDAH BTE3+1 SET OUT OF TIME FLAG 993 00394 900 2 3 3000040 STAH BTE3+1 SET OUT OF TIME FLAG 993 00396 906 2 3 3000040 STAH BTE3+1 SET OUT OF TIME FLAG 993 00396 906 2 0200		070		368		C4000014		101	UMAEKK	SEI UTLE . GI. Z FLAG
### ### ### ##########################		991		968	~	30000014		STA	UMAERK	
893 00394 900 2 C4000000		268		250	2		0.022	LUAH	BTE3+1	
994 00386 902 2 3C010033 STAH BTE3+1 SET OUT OF TIME FLAG 895 00386 904 2 1400001C LOA ZERU 896 00386 906 2 0200		893		006		000000000		LOA	91	
695 00384 904 2 1400001C LUA ZERO 695 00384 906 2 300004a STA CYLE CYLE=0 695 00384 906 2 300004a STA CYLE 697 00385 910 2 1400002E LDA GMT+2 698 00385 910 2 1400002E LDA GMT+2 690 00392 914 2 9000032 AFD D1032 691 00394 916 2 300002E STA GMT+2 902 00394 916 2 300002E STB GMT+2 903 00394 922 2 7000037 STBH 041+1 041 DATA = LEAST SIGNIFICANT PART OF 904 00394 922 2 7000077 STBH 041+1 041 DATA = MOST SIGNIFICANT PART OF 905 00395 924 2 0870 STBH 041+1 040 DATA = MOST SIGNIFICANT PART OF		77		200		30010033		STAH	8TE 3+1	OF TIME
896 00384 906 2 30000044 STA CYLE CYLE=0 897 0038C 908 2 0200 0023 EPI ENABLE PROGRAM INTERRUPTS 899 0039C 912 2 9400002E LDB GMT-2 899 0039C 912 2 5400002E LDB GMT-2 890 0039C 912 2 5400002E LDB GMT-2 890 0039C 912 2 5000034 AFD D1032 GMT-6MT-0.03125 SEC/ND 891 0039C 912 2 500003C STB GMT-2 891 0039C 912 2 7000002E STB GMT-2 892 0039C 918 2 7000002E CFX 893 0039C 924 2 0400 CFX 894 0039C 924 2 0870 STBH 041-1 041 04TA = LEAST SIGNIFICANT PART OF STBH 0405 0039C 924 2 0870 CFX 894 0039C 924 2 0870 CFX 895 0039C 924 2 0870 CFX		405		406	1	14000010		104	ZERO	
897 0034C 908 2 0200		400		400		4C00004A		STA	4 1	CYI F=0
997 0036C 708 0036C 708 070 070 070 070 070 070 070 070 070		000		0000			5000	100		
698 0038E 910 2 1400002E LDB 6MT-2 699 00390 912 2 5400002E LDB 6MT 900 00392 914 2 900003E STA GMT-2 902 00394 918 2 7000002E STA GMT-2 903 00395 920 2 0400 CFX 903 00395 920 2 0400 0 STBH 041*1 041 DATA = LEAST SIGNIFICANT PART OF 905 0039C 924 2 0670  STBH 041*1 040 DATA = MOST SIGNIFICANT PART OF 905 0039C 924 2 0670  STBH 041*1 040 DATA = MOST SIGNIFICANT PART OF 905 0039C 924 2 0670		940		400			0000	1.17		
948 00396	ARIED	0		010		20000000		104	Caltan	
999 00390 912 2 5400002C LUB 691 691 691 691 691 692 693 693 913 6 2 5400002C LUB 691 691 691 693 692 6 2 600002C STB 691 691 691 691 691 691 691 691 691 691		040		710		300000		100	3.11.0	
900 00394 914 2 90000034 AFU 01032 0M1=6M1+0+03125 SEC/NU 010394 910 00394 92 2 3000002E STA GMT FIX GMT 902 00395 920 2 0400 CFX STAH 041+1 041 0ATA = LEAST SIGNIFICANT PART OF 905 00394 922 2 70010077 STBH 041+1 041 0ATA = LEAST SIGNIFICANT PART OF 905 00395 924 2 0670 STBH 041+1 040 0ATA = MOST SIGNIFICANT PART OF 905 00395 924 2 0670 STBH 041+1 040 0ATA = MOST SIGNIFICANT PART OF 905 00395 924 2 0670		100		710		24000000		100	641	ON DEED ATTOCKED OF COLUMN
901 00374 916 2 5000002E 518 GMT FIX GMT 903 00395 920 2 0400 CFX CFX GMT FIX GMT FIX GMT 903 00395 920 2 0400 7100 STBH 041+1 041 DATA = LEAST SIGNIFICANT PART OF 905 0039C 924 2 0670 STBH 041-1 040 DATA = MOST SIGNIFICANT PART OF 905 0039C 924 2 0670 STBH 040-1 040 DATA = MOST SIGNIFICANT PART OF 905 0039C 924 2 0670 STBH 040-1 040 DATA = MOST SIGNIFICANT PART OF 905 0039C 924 2 0670		300		11.		3000034		014	01036	041=041+0•03153 3EC/140
902 00395 918 2 700002C 518 6M1 FIX 6MT 903 00395 920 2 0400 CFX CFX 903 00395 920 2 700002C 518 6M1 OF 904 00394 922 2 70010077 518 041+1 041 0410 041 0410 041 0410 041 0410 041 041		106		310		SCOUNTE		4	2.1 40	
903 00395 920 2 0400 CFX 904 00394 922 2 7C010077 STBH 041+1 041 04TA = LEAST SIGNIFICANT PART OF 905 0039C 924 2 0670 STBH 041+1 041-1 040 041 041 0414 0414 041 040 041 041		206		218		2200002		210	GMI	
904 00394 922 2 7C010077 STBH 041+1 041 DATA = LEAST SIGNIFICANT PART OF 905 0039C 924 2 0870 SHLD 16 540 000 041 041 041 041 040 041 041 041 0		903		920		0000		CFX		FIX GMT
904 00394 922 2 70010077 STBH 041*1 041 DATA = LEASI SIGNIFICANI PART UP 905 0039C 924 2 0870 SRLD 16 905 0039C 924 2 0870 CTEH 04011 040 DATA - MOST SIGNIFICANI PART OF	MATEU					0010				
905 0039C 924 2 0870 SRLO 10 SRLO 10 040 DATA - MINT STRAIFFICANT PART OF		706		226		70010077		STAH	1+1+0	= LEASI SIGNIFICANI PARI OF
OF THE PART STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE DANS TO SECOND SANDER SECOND SANDE	SATE	202		476		0200		SKLU	10	
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908 00346 910 00346 911 00346 912 00346 914 00346 915 00346 916 00341 917 00346 918 00346 920 00346 920 00346 920 00346 920 00346 920 00346 920 00346 920 00346	9444 9444 9444 9444 9444 9444 9444 944		1400005A		L0A	TIME+2	
	10010101010101010101010101010101010101		54000058		LUB	TIME	GNOOPS POLITION + OFFICE SECOND
	EW 44444448 449 809699	1	3C00005A		STA	TIME+2	
	# 94949472 4404 # 949494 # 94444444 # 9444444 # 9444 # 9444 # 9444 # 94444 # 9	N	70000056		518	TIME	
		~	00+0		CFX		FIX TIME
			0200		17.	115001	GMOST OF THE
		v	1000001		4015	11541	PICK UP TURN AROUND WORD
			200001				GET RIO OF OLD LIFE
		un	5040		SELO	, ,	PICK UP NEW ITEM
		1 1	30000072		STA	046	
		11	14000060		LUA	ITER	
			0063		STC	11	RIGHT JUSTIFY ITER
			0070				
			30000000		STA	ITER	
		~	54016FF7		LUBH	13F+1	GET LOW URDER HALF WORD
		V	0801		SLLD	-	PACK IT
			0010				
		N	14016FF6		LOAH	I3F	GET HIGH UNDER HALF WURD
7			84000000		AND	SWASK	GET MID OF UNWANIED BILS
		V	0020		SKC	16	PACK HIGH ORDER HALF WORD
926 00303		N	0964		SALD	10	
			7C0100C5		STar	058+1	USB DATA = COU SWITCHES
	996		14010033		LUAH	H1E3.1	Tra a language training the second
926 003CB			84000018		AND	613	CHECK ALI DINKEASONABLE BIL
		V	0200			0000	
		1	540100CS		1080	054+1	LOAD 058 DATA INTO 8 REGISTE
432 003CF	474	1	0.804		SELD		LEFT JUSTIFY DATA BITS
		,	0020				
+33 00300	0 976	2	14000020		LDA	DATI	
934 00302		V	30000014		STA	TEMP	
935 00304	096 +	N	0003		SLLD	3	DATI=DATI*8+058 BITS 20-22
			0040				
		V			AND	32/6/•	DAIL AND CHIL HEX
		N	30000050		STA	DATI	
938 003DA	986	V	E4000014		290	TEMP	
939 003DC		2	6108		2	0030	DUES LEMP=DAIL
		(	0070				
440 0030E	330	vi	1400000		LOA	7 %	VEST DATA-DATI AND 7
941 00350		vo	10000000		0 1 7	DATA	ובטי טאוא-טאוזיאונטיי
		0.0	140000041	0000	40	2 2 2 0	
		40	07007011	0000	DNA	32.M	
	-	10	3C000054		STA	TEST	TEST = PRESS-10-TEST-BIT
0.0	-	IN	14000004		LUA	058	
	-	2	8402001F		AND	31,M	(A) = PUSHBUTION SWITCH
	-	2	5102		27	0031	IS (A)=0
949 003EF	F 1007	~	6003		20	0032	
	_	N	3000008	0031	STA	PUSH	YES: PUSH=(A)
951 003F2	-	2	£4020019	0032	Sau	25.M	CHECK MODE START SWITCH
	7	N	30000070		STA	TMDK	SAVE FOR FUTURE REFERENCE
953 003F6	1014	N	A4020006		ADU	6.4	HAS DATA SWITCH BEEN PRESSED

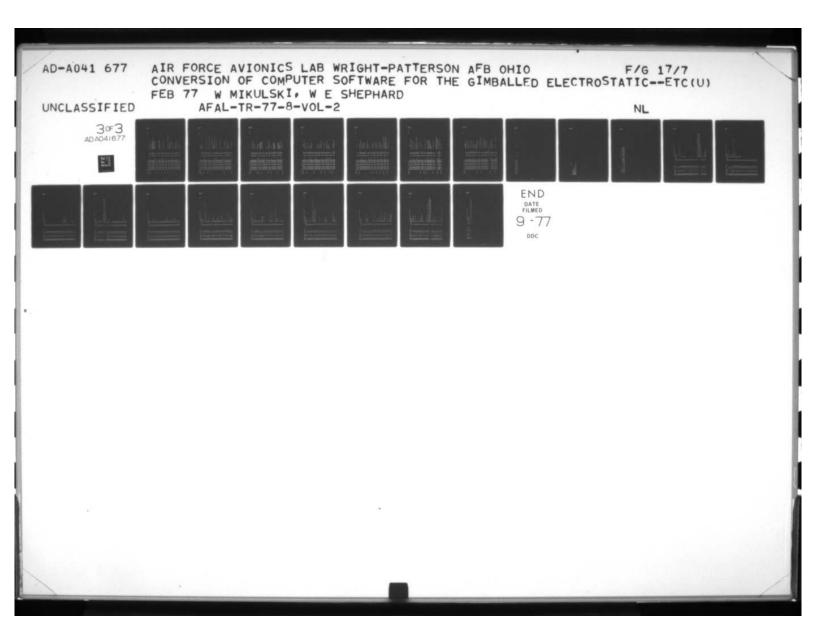
						0.4					CH					1.																															
	SOURCE		(A) = NE = 0 SO (A) = 256 = (BB)		C	CET MODE CHITCH FROM B DEGISTER	SEL MODE SMITCH FROM B REGIST	CLEAR OUT GARBAGE	(XXX) =NEW MODE	Is NEW MODE = MODE	YES - DO NOT CHANGE MODE SWITCH	IS NEW MODE .GE.6	YES - TURN ON MODE START LITE	IS NEW MODE = 1	TES - TORN ON MODE START LITE	NO - GO CHECK MODE START SWIT	YES - DO NOT CHANGE MODE SWITCH	HAS MODE STARTED	NO - TURN ON MUDE START LITE	and the second second	STORE NEW MODE SALICH			THOSE TOATS GOOD NO WOLLT	TORN ON MODE START LIGHT	MASK OFF R.A.T. FIELD	SHIFT TO PROPER LOCATION				SHIEL TO PROPER COLLIEN		INSERT IN WORD	STORE IN OWE DATA	And and the Andrews	U4U DAIA = KUIUR SPEEU	MASK OFF HAT-HITE HIT				OP I	MASK OF TEMPERATURE BITE	SHIFT TO PROPER LOCATION				MASK OFF IMU BITE
		0034	2555.4	LITE	384.1	LITE	•	SEVEN	T	H. MOUF	0500	8.6.M	0040	Α.Ι.α	0040	0035	0000	TMPK	0040		5000		128.M	LITE	177	RATMST			TEMP	122	1001		TEMP	04E+1	177+1	1.000	177	403		TEMP	174	TEMSK	1	drait	75.77	173	IMUMSK
		20	FXO	LO4	EXC	STA	SELU	AND	LXA	ICN	360	ICL	760	NOI	000	ICL	160	LUA	27	,	×		LOA	LOK	4 5 5	PND	SLL		STA	LOA	DAND - 13	755	LOH	STAH	LOAH	EA.	LUAN	2 2		STA	LDAH	AND	SLL	200	27.0	I DAH	DNA
			0033															0035					0+00		0501	0000																					
NAME=*HTE XEC*	PRUGRAM	6003	14020100	C400006E	CC020180	3C00006E	0200	84000014	0990	0010	6430042A	24430006	64300424	24420001	54300424	54430001	6430042A	14000070	9019	0020	1040000	0010	14020080	C400006E	300000e	44000046	0849	0020	30000014	14006FF2	84000008	0010	C4000014	30010085	14016FEF	30010083	14010FEE	01000000	0100	30000014	14016FE6	84000096	0844	0700	30000014	TAUTOFFE	BADDOUSE
\$ #	07	N	nn	N		v			N		10			v	vo				2		vì		2	NO	01				N		v			V	N C	v	vo	חט	J	~	V	N	N	-	4.4	ia	N
DECK NAME	DAURES	1017	1018	1022	1054	1026	1050	1030	1032	10 44	1036	1038	1040	1042	1044	1040	1050	1052	1054		1056		1060	1062	1001	1000	1070		1072	1074	1070	0101	1080	1082	1084	1006	1000	1000	3,01	1 1094	1036	1896	1100	1100	1100	1106	1108
O.	AURES	00369	DUSFA	003FE	00400	20100	101		90+00	00400	00400	0040E	00410	00412	00414	01+00	0041A		0041E		02400		52500	00426	DV 100						00434		00438			0043E		004400		00446	00448	00444	00440		00000		
K2040503	LINE		956	458	454	000	106	205	963	446	465	906	196	263	505	970	472	973	716	200	476		717	816	7 7 7	C T	385		983	101	000	000	987	THE	686	066	166	266		466	345	966	255	9000	270	1000	1001
VERSION KZ	DIAGNOSTICS						GENERATED			GENERATED										GENERATED		GENERATED						GENERATED				GENERATED							GEMERATED				1	GENERATEU			

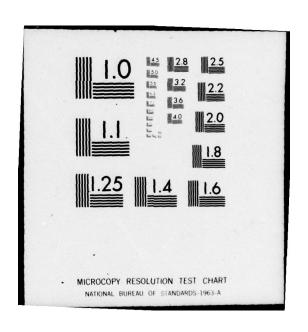
DECK NAME = "HIE KEC"

VERSION KRUADSUS

100	00456 1110
STA   TEMP   SHIFT TO AIGHT PUSITION	
LUAN 121+1  AND 67  STAT 050+1  LOA 1EMP  STAT 050+1  LOAN 121-1  AND 650+1  LOAN 121-1  AND 00FF  STAT 10-16H1 POSITION  STAT 121-1  AND 00FF  STAT 050+1  STAT 12-1  AND 00FF  STAT 12-1  STAT 12-1  AND 17-1  AND	<i>V V</i>
SAC 1 MASK OFF DOPPLER KELIAGLE  SAC 4 SHIFT TO ALGHI PUSITION  STAM 121-1  AND 612-1  LOAN 121-1  AND 612-1  AND 600-F  SAVE IT  LOAN 17-1  AND 600-F  SAVE IT  LOAN 17-1  AND 600-F  SAVE IT  LOAN 17-1  AND 600-F  SAVE IT  S	N
COMPANY   COMP	1118 2 8400000C
COM	
CORP.   CORP	1122 2 04000014
STA TEMP STATE TO STA	JN
STA TEMP  LUAH  121  AND  OOFF  STAH  LUAH  STAH  CES+1  CON-1  C	2
STA TEMP  LUAH  121  STAH  121  STAH  122+0  STAH  122+1  STAH  122+1  STAH  122+1  STAH	5 0066
LUAH 121  LUAH 122  STAH 1224-1  STAH 1224-1  STAH 1224-1  STAH 1224-1  STAH 1224-1  STAH 1754-1  STAH 1754-1  STAH 1754-1  STAH 1754-1  MASK OFF  MASK OFF  MASK OFF  MASK OFF  MASK OFF  MASK OFF  STAH 1754-1  MASK OFF  STAH 1754-1  MASK OFF  STAH 1754-1  MASK OFF  LUAH 1754-1  MASK OFF  STAH 1754-1  MASK OFF  LUAH 1754-1  MASK OFF  STAH 1754-1  AND OUFF  LUAH 1754-1  STAH 1754-	
STAM DOFF MASK OFF IN STURE IN STAM 122-1 STURE IN LUMB 122-1 STURE IN LUMB 122-1 STURE IN LUMB 175-1 MASK OFF STAM 175-1 MASK	N
STAH   STAH   STORE IN   STORE IN   STAH   SZ41   STAH   SZ41   STAH   SZ41   STAH   SZ41   SZ42   SZ42   SZ42   SZ42   SZ42   SZ42   SZ42   SZ43   SZ43   SZ43   SZ43   SZ43   SZ43   SZ43   SZ44	1136 2 84000308
STAT 122-1	9
STAM 025-1  STAM 025-1  STAM 025-1  LUAM 00FF MASK OFF  LUAM 175-  AND 00FF MASK OFF  LUAM 175-1  LUAM 175-1  AND FF MASK OFF  STAM 175-1  AND 00FF MASK OFF  INSERT II  STAM 00FF MASK OFF  LUAM 175-1  AND 00FF MASK OFF  STAM 0	1140 2 C4000014
STAN 000F MASK 0FF SLUAN 170 MASK 0FF SLUAN 170 MASK 0FF LUAN 170 MASK 0FF LUAN 170 MASK 0FF STAN 170 MASK 0FF STAN 170 MASK 0FF STAN 000F STAN 000F MASK 0FF STAN 000F MASK 000F MAS	
STAH   176   MAS   SL	12
17.3 MAS 17.	2 1+016FEC
17.3 MAS SAV 17.5	
17.5 MAS SAV 000FF 1000 MAS SAV 000FF 100 MAS SAV 17.5 MA	
175-11 MASS 175-11	
176-11 MASS 100 STOUTH NASS 100 STOUTH NASS 100 STOUTH NASS 100 STOUTH NASS 100 SE-11 OSE 100 SE-11	
175-1 FF MAS TEMP 1005 175-1 FF MAS 175-1 175	un
170-1 FF MAS TEMP INS 173-1 FF MAS 173-1 0051-1 173-1 0057 MAS 173-1 173-1 173-1 0077 MAS 173-1 173-	V
175-1 17	N
175-1 17	1166 2 840000CA
FF MASS  11.40  12.41  17.51	V
175-11 185 195 195 195 195 195 195 195 195 195 19	
17541 17541	1174 2 0068
175-1 005FF MASS 175-1 005FF MASS 175-1 005FF MASS 175-1 005FF MASS 173-1 005E-1 005E-1 005E-1 005E-1 005E-1	2 C400
175-1 905FF MASS 175-1 175-	N
175-1 175-1 175-1 175-1 006F 1EMP 113-1 113-1 05E-1 61E3 61E3	2
175-1 175-1 00FF 1NS 052-1 113-1 05E-1 61E3	V
175.1 175.1 175.1 175.1 175.1 175.1 173.1	0040
17541 MASS	
175-1 00FF TEMP 052-1 113-1 05E-1 61E3 150-4-M	
100FF MAS 100FF 100F 113*1 05E 113*1 05E 113*1 05E	2
7EMP INS 052-1 113-1 05E-1 67E3 15	N
052*1 113*1 05E*1 67E3 20************************************	N
113+1 05E 05E+1 05E 87E3 2044-M IS	
05E+1 05E 67E3 2048+M IS	
2044.M IS	N
13000	V
	1000 7 84020800

VERSION K20A0503	0203	DE	DECK NAME = * MTEXEC*	9	TEXEC					
OTAGNOSTICS GENERATED	LINE	ADHES	DADRES	27	DROCKAM 0700				SOURCE	
	1050	98400	1206	2	14010030		LUAH	HTE1	YES	
	1051	00488	1208	N	A400000A		AND	OFFF	ISULATE BITS FOOD OF BTE1	
	1052	00+6A	1210	~	30010030		STAH	HTE1		
	1053	004BC	1212	N	140100C7		LUAH	050+1		
	1054	004At	1214	2	840000CB		DNA		E FIELD F	
	1055	00+00	1216	2	C4000030		LON	BTE1	INSERT IN BIEL FIELD F000	
	1056	00462	1218	2	30010030		STAH	HTE1		
	1057	40000	1220	2	14000035	1600	LUA	eTE3		
	1058	90400	1222	~	84020400		AND	1024.M	IS BIE4 BIT FUR SIDL-04=0	
	1058	00400	1224	~	6110		3	24.00		
GENERALED	4000		,,,,,		0010			ores		
	10001	40400	1224	vo	14010030		LOAD	5005	TEST ATE ATTS FOOF OF HTEL	
	1001		1230	Un	3000000		101	PICT	2113 1 001 01	
	1064		1232	11	14010007		LOAH	050 • 1		
	1064		1234	12	84000006		AND	OFFO	ISOLATE FIELD OFFO	
	1065	00404	1236	10	0400030		LOR	BTE1	INSERT IN BTEL FIELD OFFO	
	1066		1238	1	30010030		STAH	BTEI		
	1067		1240	N	14000032	2600	LUA	BTE3		
	1068	004DA	1242	~	84020080		AND	124.M	IS HIE4 BIT FOR SIDL-07=0	
	1069	0040C	1244	2	0110		N	0093		
GENERATED					0010					
	1070	30400	1246	~	14010030		LOAH	HTE1		
	1071	004E0	1248	2	84000005		DNA	FFFD	ISOLATE BITS FFFD OF BTE1	
	1972	004E2	1450	N	30010030		STAH	9TE1		
	1973	004E4	1252	~	14010007		LDAH	050+1		
	1074	00456	1254	0,1	8400001C		AND	615	ISOLATE FIELD 0002	
	1075	00468	1256	N	04000030		LOK	BTEI	SIE	
	1076	OUSEA	1258	V	30010030		STAH	BIEL		
	1077	004EC	1260	N	14000035	0093		BTE3		
	1078	004EE	1262	V	84020040			64.M	IS STE4 BIT FOR SIDL-08=0	
	1079	00460	1564	N	6110		25	7600		
GENERATED		-	-		0100					
	1040	2 4+00	1266	V	14010030		LUAH	BIEL		
	1081	74500	1268	N	840000004		AND	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ISOLATE STEL FIELD FFFE	
	2001	00410	1270	V	30010030		4 - 0	0151		
	1003	24400	1212	v	14010001		LUAH	1.050		
	1001	004100	1274	v	04000000		000	010	ISULATE FIELD UDUI	
	1046	34700	1274	0.0	40010030		ATA I	HTEL		
	1087	00200	1280	10	14010030	7600	LDAH	BTEI		
	1088	20500	1282	N	CCOOOOCC		EXO		BTE1 = .NOT. HTE1	
	1089	00000	1284	N	840000CZ		AND	THIY	((.NOT. BTE1).AND. 30 HEX)	
	1090	90500	1286	2	30010014		STAH	TEMP		
	1001	90500	1288	N	140100AU		LDAH	014+1		
	1092	0.0504	1290	2	84000000		AND	FF0F	(014 DATA.AND.FFOF)	
	1093	00500	1565	~	C4000014		107	TEMP	(014 DATA.ANU.FF01).OM.TEMP	
	1094	0050E	1634	~	3C01004D		STAH	014+1		
	10 33	01500	1230	N	140000032		LUA	HIE3		
	10 36	21500	1521	N	84020010		AND	16.M	IS BIE4 GIT FOR SIDL-10=0	
of sales and the	1601	91500	1300	V	6106		200	5600		
GENERALE!	1000		1 20 3		0000		700	14.550		
	1000	01000	1305	u o	1401000		LOAD	976141	930	
	**	61600	130+		30010031		DAIR	916111	BIEC = USE UATA	





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VERSION K20A0503	40503	UE	DECK NAME=*HTEXEC*	*	TE XEC*					PAG
POTAGNOSTICS	I CAF	5 440	SANGE	0	PROGRAM				SOURCE	
	1100	0051A	1306	200	14000032	5600	LDA	BTE3	15 BTE4 BIT FOR SIDL-07=1	
	1102	00516	1310	2	611E		3 3	0100	YES	
GENERALEU	1103	00550	1312	N	14010085		LUAH	045+1	LOAD 04E DATA	
	1104		1314	~	BC000000		SAM	81,L	CHECK SIGN OF R.A.T. FIELD	
	1105	00524	1316	~ ~	6430052C		OSC	RATMS3	MASK OFF MAGNITUDE BITS	
	1107		1320	u ~	CC000000		Exo	NONE	COMPLEMENT	
	1108		1322	2	A4000004		ADU	ONE	ADD 1 FOR 215 COMPLEMENT	
	1109	0052C	1354	2	0059	9600	SKA	52	SHIFT PUSITIVE KAA-1. FIELD	
GE VERATED	1110	36200	1326	^	5400010 0097	2600	1.08	2580		
	1111		1328	1 ~	0440		CAF			
	1112		1359	2	2019		3	**5		
	1113	00532	1330	2	6004		Or.	9600		
GENERATED	1117	2000	1333	0	0000000		CALL	C10523	SCALE R.A.T. FUR SUMMATION	
	11118		1334	0 1	3000034	8600	STA	KAT	STORE 04E RAT FIELD IN RAT	
	1116	00534	1336	N	14010043		LUAH	040+1	(A) = 040 DATA	
	1117	00534	1338	V	+0009		20	0150		
GENERATED					0010					
	1116		1340		14000010	0100	LUA	ZERU	(♦) ± (♦)	
	11120	00536	1346	vn	14000032		LOA	BTE3		
	1121				04020100		AND	256 · M	IS BIE4 BIT FUR SIDL-08=0	
	1122		1348		6122		3	0155		
GENERATED					0200			0000		
	1123	0.0546	1350		14600036		LUA	1000		
	1124	00000			3000001		DAH.	025+1		
	1126	00540	• -	1 (1	0876		SALD	22		
GENERATED					0010					
	1127		1358	2	30000036		STA	9440	BARO = BAROMETRIC ALTITUDE FIELD OF U25	
	1128		-				LDA	TEMP	TO A DA A	
	1129		1362				280	0440	15 (TEMP-BARD) - 6T - 0	
CENCONTER	1130	00004	1304	u	0100		20			
SENERAL CO	1131	00555	1366		3000		STA	TEMP	NOT TAKE ABS (TEMP-BARO)	
	1132		1358	2			LDA	ZE 30		
	1133		_				SHU	TEMP	a Till (COAn-Onet) 20. 21	
	1134	. 0055C	1372	V		0151	SHO	20.0	IS ABSTIEMPEDANOTORIO	
Co. C.	1136		-		6308		7	0133	2	
GENERALED	11 46	00560	1376	^	1401		LUAH	BTE3		
	1137		1378				LOR	813		
	1138		1380				STAH	BTE3	BTE3=BTE3.0R.B13	
	1139		-			0155	Sr	CDPU	PHOCESS DOPPLER DISCRETES	
	1140		-	20	14000136		407	20630		
	1141	00000	1388				C. Y	5000		
	1143						3	0157	IS ALTITUDE FLAG = 0	
	1144	+ 0055E	-	~	14000030		LDA	BARO		
	1145	00570	1392	N	5400001C		500	75.40	FLOAT HARD	
	1146			7	040		CAF		LUAI DANO	

VERSION K20A0503	A0503	, c	DECK NAME = * HTEXEC*	11	TEXECO					PAGE 31
DIAGNOSTICS LINE	LINE	AURES	AUMES DAUMES LC	27	PROGRAM				SOURCE	
OF SECURITY OF	1147		1396	~	9000130		AFD	COAZ	BARO+CU62	
	1149	81500 81500	1400	v	90009 6006		¥ 3	0158	CD61*(BARO+CD62)	
GENERATED					0010					
	1150	0057A	7051	vo	1400013A	0157	LUA P	2000		
	1152		1405	u N	3000012	0158	STA	AL 1+2		
	1153		1408	2	70000007		STB	ALT		
	1154	-	1410	N O	14000032		LDA	81£3	1-00- WIT 500 TIE -510 ST	
	1156	00580	1414	v	6118		2 2	0160	13 8154 811 TON SIDE-09=1	
GENERATED					0010					
	1157		1416	2	140000CC		LDA	060		
	1158	-	1410	v	84000004		AND	HEDMSK	and wood of the output the property of the output of the o	
	1159	0058C	1420	v	14010000		400	060+1	HUGV = MEADING VELOCITY FIELD FROM USD	
	1161		1454	2	840000CA		AND			
	1162		1426	2	9530		SHA	54		
GENERATED					0000					
	1103	15000	1428	vo	3C00004E		A	0.6.5	DATE DAIL VELOCITY FIELD FROM U60	
	1163		1430	un	440000044		AND	RATMSS	MASK OFF VEHIICAL VELOCITY	
	1166	0.75	1434	10	0847		215	7	PICK UP SIGN	
	1167	-	1435	2	0057		SHA	23	RIGHT JUSTIFY	
	1168		1436	~	3C00004C		STA	VHTV	VHTV = VERTICAL VELUCITY FIELD OF 04E	
	1169	200	1438	2	SC2A0004		LDX	S.4.M		
	1170	8337	1440	2	16800020	0161	LDA	0PVV•5		
	11172	24500	7551	vn	35 80004C		ADO	2000	DPV(1)=DPV(1)+VRIV(1) 1=1+3	
	11173		1000		200000		1 2 2 2	2.2.4		
	1174		1448		643005A0		760	0161		
	1175		1450	2	5400001C		LUB	ZERO		
	1176	177	1452	2	14000030		LUA	BTE1		
	111/	70	1454	~	8C00001C		SAM	915	IS BTE1 BIT FOR RAT BITE = 1	
	1170	00200	1456	vn	25000000		750	0163		
	1180		1460	u'n	14000034	5410	000	1 4 2	0.14	
	1181	1	1462	N	6102		2 2	0164		
	1182		1463	2	602F		O.C.	0165	YES	
	1183	00588	1464	N	6318	0164	٦	D164A		
GENERATED	1100		1111		0020				***************************************	
	1001	00000	1456	va	3000000		AFO	DATE O	XAC. C. XA-THXA-T+XA-	
	1186		1470	12	7000000		STB	RATP		
	1187	9	1472	~	140000AC		LDA	014		
	1188		1474	~	8400000C		AND	FF3F	CLEAR RAT+ AND RAT- BITS	
	1189	00504	1476	N	C4020040		LOR	M++4	SET HAT+ BIT 10 1	
	1190		1 1	vn	14000030		4 6	110		
	1192		1482	10	44000004		ADD	ONF	RATI = RATI + 1	
	1193	005CC	1484	N	3000030		STA	RATL		
CENCOATER	1194		1486	N	601A		JU	0166		
OENERAL EV	1195	00500	1488	N	9000009	01644	AFD	RATM	KAT-LT.0: RAIM=KATM+KAT	
				1						

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VERSION K2040503 DECK NAME=\*\*TEXEC\*

1199 07502   1449   2 GC00000	SAL I SOLISONDATO		N. Santa	2 40040	-	MANAGER				Solinos
1197 00504   1992   77000000   570   1914   1919 00504   1994   2 19000000   1994   1994   2 19000000   1994   1994   2 19000000   1994   1994   2 19000000   1994   1994   2 19000000   1994   1994   2 190000000   1994			3507	2440	1	4000000		STA	WATM+2	
1199 00509	311		1050	1445	11	7000007		Z TH	. TATA	
1779 07528   1496   2 -0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-			1000	1.04	4 0	200000			710	
1177 01526   1449   2 0 000000			9000	1641	u	I+0000AC		407	*10	
1200 005504   15948   2 GA000000		_	90.50	1470	v	2400000		4.40	15.11	CLEAR RAI+ AND RAI- BIIS
1201 0050C   1500   2 30000004   1504   1605   16000004   1209 00556   1504   2 440000004   1204 00556   1504   2 440000004   1204 00556   1504   2 440000004   1204 00556   1510   2 6266	121		050A	1478	~	C+020080		רסא	124.4	SET MAT- BIT TO 1
1202 00556   1502   2 4000030	120		050C	1500	~	3C00000C		STA	100	
1203 00560   1504   2 E4000000   1504   0 NE   1509   0 NE   1209 00560   1500   2 E4000000   1504   0 NE   1509   2 E40000000   1504   0 NE   1509   2 E40000000   1504   0 NE   1509   2 E40000000   1504   0 NE   0 NE   1504   0 NE   0 NE   1504   0 NE   1504   0 NE   1504   0 NE   1504   0 NE   0 NE   1504	120		USDE	1502	^	1400003C		LUA	KATL	
1204 00562   1506   2 3000036   1518   1518   2 6206   1016   1	17		0560	1504	1	4000000A		CHI	ONF	RATI = HATI -1
1205 00554   1508   2 6004   0.00	121		6.350	1500	1	35000035		SIA	DATI	
1206 00956   1310   2 30000030   1050   557	121		0564	1500		20000		1 -	19610	
1206 00956   1510   2 30000030   1056   1057   1207 00558   1512   2 6266   10166   10167   1507 00558   1514   2 14000010   1057   1507 00556   1515   2 6400   1057   1507	•		1350	1 300	u			3	0910	
1206 009E6   1510   2 40000340 D165   574 RATE   1207 009E6   1516   2 6206   0166   0167	1				-	00/0	1			
1207 005E	151	0 90	10256	1510	~	30000030	0165	STA	RATL	HAT=0 SO HATL=0
1200 005E	120	070	DSEB	1512	~	9029	0166	90	0167	IS RATL .GE.0
1200 005E	60					0020				
1212 005EC   1516   2 E+020400 0167   580   2048.m     1211 005EC   1518   2 E+020400 0167   580   2048.m     1212 005FC   1522   2   4000036   170   170     1212 005F4   1524   2   2000036   170   100     1213 005F4   1524   2   2000036   170   100     1215 005F4   1524   2   2000036   170   100     1215 005F4   1534   2   1400036   170   174     1216 005F4   1534   2   1400036   170   174     1216 005F4   1534   2   1400036   171   584     1217 005F4   1534   2   14000006   171   584     1218 005F4   1534   2   14000006   171   584     1218 005F4   1534   2   14000006   171   584     1220 005F4   1534   2   14000006   171   584     1221 00500   1534   2   14000001   100     1222 00500   1544   2   2   2   2     1222 00500   1544   2   2   2     1222 00500   1544   2   2   2     1222 00500   1544   2   2   2     1225 00500   1544   2   2   2     1225 00500   1544   2   2   2     1226 00500   1544   2   2     1226 00500   1544   2   2     1227 00500   1544   2   2     1228 00501   1556   2   2   2     1239 00514   1556   2   2   2     1239 00514   1556   2   2   2     1231 00514   1556   2   2     1232 00516   1556   2   2     1234 00526   1576   2   2     1235 00516   1556   2   2     1236 00526   1576   2   2     1237 00526   1576   2   2     1238 00526   1576   2     1239 00526   1576   2     1240 00526   1576   2     1241 00526   1576   2     1241 00526   1576   2     1242 00526   1576   2     1243 00526   1576   2     1244 00526   1576   2     1245 00526   1576   2     1247 00526   1576   2     1248 00526   1576   2     1249 00526   1576   2     1241 00527   1576   1576   1576     1241 00528   1576   2     1241 00528   1576   2     1241 00528   1576   1576   1576     1241 00528   1576   1576   1576     1241 00528   1576   1576   1576     1241 00528   1576   1576   1576     1241 00528   1576   1576   1576     1241 00528   1576   1576   1576     1241 00528   1576   1576   1576     1257 005000000000000000000000000000000000	-		USE A	1514	1	14000010		AG.	ZERO	
1210 005E   1510   2 ±0000   10	121		2350	4151	10	25000003		1170	DATE	AND TAKE ABSTOR
1212 005F4   1524   2 00000   1017   1018	121		3130	9131	10	2000000	2710	200	2000	THE POST OF THE PO
1212   0.0576   1524   2   2.000032   1.00	121		DOEE.	9101	4	200000	1010	200	20403	(ABSINAIL) -32-647
1212 005F4   1522   2   40000032   LOA   HTE3     1213 005F4   1524   2   2   2   2   2   2   2     1214 005F4   1524   2   2   2   2   2   2   2     1215 005F4   1526   2   2   2   2   2   2   2     1216 005F4   1526   2   2   2   2   2   2   2     1216 005F4   1530   2   0   0   0   14     1217 005F6   1531   2   0   0   0   0   14     1218 005F6   1531   2   0   0   0   0   0   0     1220 005F6   1534   2   2   0   0   0   0   0     1221 00500   1536   2   2   0   0   0   0   0     1222 00505   1534   2   2   0   0   0   0   0     1222 00505   1534   2   2   0   0   0   0   0     1222 00505   1534   2   2   0   0   0   0     1225 00506   1540   2   2   0   0   0     1226 00506   1540   2   2   0   0   0     1226 00506   1540   2   2   0   0   0     1226 00506   1540   2   2   0   0   0     1226 00506   1540   2   2   0   0   0     1226 00506   1540   2   0   0   0     1227 00507   1540   2   0   0   0     1228 00506   1540   2   0   0   0     1229 00506   1540   2   0   0   0     1229 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1231 00506   1550   2   0   0   0     1232 00506   1550   2   0   0   0     1234 00506   1550   2   0   0   0     1235 00506   1550   2   0   0   0     1236 00506   1550   2   0   0   0     1237 00506   1550   2   0   0   0     1238 00506   1550   2   0   0   0     1239 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550   2   0   0   0     1230 00506   1550			0360	1261	v	9000		7	0110	15 ABS (KAIL) . 0E . 35 - 04)
1212 009F2   1522   2   40000032   100						0010				
1213 005F4   1524   2 C4000006   LON   H5   LON   H5   LON   LON   H5   LON   LON   LON   H5   LON	121		USFZ	1522	~	14000032		407	HTE3	YES! BTE3=BTE3.0R.BS
1214 005F6   1526   2 3000032   170   100   14   1215 005F4   1528   2 14000032   170   100   14   1215 005F4   1531   2 0688   1531   2 0688   1531   2 0688   1531   2 0688   1531   2 0102   124   125	121		105F4	1524	1	C400000B		100	H5	
1215 005F6   1528   2 10000345 0170   LDA   ROTA     1216 005F6   1530   2 086E   LAA   5 10 10 10 10 10 10 10 10 10 10 10 10 10	121		7350	15.04	1 1	30000035		CIA	DTC 3	
1216 00976   1528   2 14000036 0170   LVA   SPLU   14     1217 00976   1530   2 08646   LVA   5     1218 00976   1531   2 0102   Jun   D171     1218 00976   1534   2 6102   Jun   D171     1220 00976   1534   2 64000000 D171   SPU   THREE     1221 00600   1534   2 640000000 D171   SPU   THREE     1222 00600   1540   2 640000000   LUA   BFE3     1223 00600   1540   2 6400000000   LUA   BFE3     1226 00600   1540   2 64000000   LUA   BFE3     1226 00600   1550   2 14000000   LUA   BOTH     1229 00600   1550   2 14000000   STA   BFMP     1231 00614   1556   2 600000   STA   BFMP     1232 00616   1556   2 1400000   STA   BFMP     1234 00616   1556   2 140000   STA   BFMP     1235 00616   1556   2 140000   STA   BFMP     1237 00626   1570   2 140000   STA   BFMP     1238 00626   1570   2 140000   STA   BFMP     1231 00628   1570   2 140000   STA   BFMP     1241 00628   1570   2 14000   STA   BFMP     1241 00628   1570   2 14000   STA   BFMP     1241 00620   1540   STA   BFMP     1241 00620   1540   STA   BFMP     1241 00	30		2	2001		300000			9163	
1216 0095A   1530   2 086E   5 54LD   14     1217 0095G   1531   2 6102   JN   D171     1219 0095C   1532   2 6102   JN   D171     1219 0095E   1534   2 6102   JN   D171     1219 0095E   1534   2 64000   D171   JN   D140     1220 0095E   1534   2 64000   D171   JN   D140     1222 0060C   1539   2 140100   D171   JN   D140     1222 0060C   1542   2 60100   D240     1222 0060C   1542   2 60100   D240     1222 0060C   1542   2 64000   D10   D240     1222 0060C   1544   2 042   D10   D240     1224 0060C   1544   2 042   D10   D140     1225 0060C   1544   2 04200   D10     1226 0060C   1544   2 04200   D10   D140     1229 0060C   1544   2 04000   D10     1229 0060C   1554   2 140000   D10     1231 0061C   1556   2 14000   D10     1232 0061C   1556   2 14000   D10     1234 0061C   1556   2 14000   D10     1235 0061C   1556   2 14000   D10     1236 0062C   1570   2 14000   D10     1237 0062C   1550   2 14000   D10     1238 0062C   1570   2 14000   D10     1241 0062C   1574   2 1600   D10     1241 0062C   1574   2 1600   D10     1241 0062C   1576   2 1400   D10     1241 0062C   1576   2 1400   D10     1241 0062C   1576   2 1400   D10     1241 0062C   1570   D10     1250   D10	77		0218	1258	v	14000038	0110	LUA	¥ 10 ×	
1217 045Fd   1531   2   064b   15A   5   1218 045FC   1532   2   6102   10   0540   10   0240   1218 045FC   1534   2   6102   10   0240   1218 045FC   1534   2   6400   1220 045FE   1534   2   6400000   1711   1700	121		OSFA	1530	~	UBBE		SHLU	7.	
1218 005FC   1532   2 6102   JN   U171   U240   U220 00606   U236   E 640000c   U700   U700   U700   U240   U240   U700   U700   U240	171		USFB	1531	2	0648		LXA	2	
1219   005F   1534   2   6057   JU   0240     1220   005F   1534   2   6057   JU   0240     1221   00600   1536   2   6104   JN   JU   UJ40     1222   00600   1536   2   6104   JN   JU   UJ40     1223   00600   1540   2   4010032   JU   D240     1226   00600   1540   2   24260002   JU   D181     1229   00601   1550   2   24000001   D10   D181     1230   00610   1550   2   24000001   D10   D181     1231   00610   1550   2   2400001   D1   D182     1232   00610   1550   2   2400001   D181     1234   00610   1550   2   2400001   D181     1235   00610   1550   2   2400001   D181     1236   00622   1570   2   2400001   D181     1237   00620   1570   2   2400001   D181     1240   00622   1570   2   2400001   D182     1241   00622   1570   2   2400001   D182     1242   00622   1570   2   2400001   D182     1243   00622   1570   2   2400001   D182     1241   00622   1570   2   2400001   D182     1241   00622   1570   2   2400001   D183     1242   00620   1570   2   2400001   D183     1243   00620   1570   D183     1244   00620   1570   D183     1245   00600   D183     1245   00600   D183     125000000000000000000000000000000000000	121		OSFC	1532	^	6102		3	0171	IS 1=0
1220 005FE   1534   2 E400000	121		0.350	1533	1	7204		=	0570	
1222 00000   1534   2 6100   1710   1710   1710   1721   1722 00000   1534   2 6100   1710   1710   1710   1710   1710   1722 00000   1534   2 61001002   1710   1710   1710   1710   1710   1722 00000   1542   2 50010032   1700   17	12		2000	1000	, 0	200000	12:0	200	35071	
1222 00602   1536   2 6100   1536   2 6100   1536   2 14010032   1500   1500   1500   1500   1500   1500   1500   1500   1500   1540   2 C4000005   1540   2 C4000005   1540   2 C4000005   1540   1542   2 64500012   1526 00600   1544   2 64500612   1526 00600   1540   2 64500612   1500	721		USFE	1534	v	E40000E	1111	250	THEE	•
1222 00602   1538   2   4010032   LDAH   HE3     1223 00604   1540   2   2   2   2   2   2   2     1223 00604   1540   2   2   2   2   2   2   2     1224 00606   1542   2   3   2   2   2   2     1225 00606   1544   2   2   2   2   2   2     1226 00606   1544   2   2   2   2   2   2     1226 00607   1540   2   2   2   2   2     1229 00607   1540   2   2   2   2   2     1229 00601   1550   2   2   2   2   2     1230 00614   1550   2   2   2   2   2     1231 00614   1550   2   2   2   2     1231 00614   1550   2   2   2   2     1231 00616   1550   2   2   2   2     1231 00616   1550   2   2   2   2     1231 00616   1550   2   2   2   2     1231 00616   1550   2   2   2   2     1231 00616   1550   2   2   2   2     1231 00616   1550   2   2   2   2     1231 00617   1550   2   2   2   2     1231 00617   1550   2   2   2   2     1231 00618   1550   2   2   2   2     1231 00627   1570   2   2   2   2     1231 00628   1570   2   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2   2     1241 00628   1570   2     1241 00628   1570   2     1241 00628   1570   2     1241 00628   1570   2     1241 00628   1570   2     1241 00628   1570   2     1250   1250   1250   1250   1250     1250   1250   1250   1250   1250     1250   1250   1250   1250   1250     1250   1250   1250   1250   1250     1250   1250   1250   1250   1250     1250   1250   1250   1250   1250   1250     1250   1250   1250   1250   1250   1250     1250   1250   1250   1250			0000	1536	v	PINA		25	0140	15 1=3
1222 00602   1538   2   4010032   10An   HE3     1225 00604   1540   2   4010036   1540   00006     1226 00606   1544   2   604C   00006     1226 00606   1544   2   604C   00006     1226 00606   1546   2   24260002   0180   1CL   5*2**********************************						0010				
1223 00604   1540   2 C40000C6   LUM   000.06     1224 00606   1542   2 30010032   STAH   BTE3     1225 00606   1544   2 640.C   JU   D240     1226 00606   1548   2 6430061   LUA   ROTI     1229 00606   1550   2 14000010   JUD   D181     1229 00606   1550   2 14000010   STA   ROTI     1230 00614   1556   2 6000014   STA   ROTI     1231 00614   1556   2 3000010   STA   ROTI     1232 00616   1556   2 3000010   STA   ROTI     1233 00618   1556   2 4000010   STA   ROTI     1234 00618   1556   2 4000010   STA   ROTI     1235 00616   1556   2 14000034   LUA   ROTE     1237 0062   1570   2 14000034   STA   ROTE     1238 0062   1570   2 14000034   STA   ROTE     1239 0062   1570   2 14000034   STA   ROTE     1240 0062   1570   2 14000034   STA   ROTE     1241 0062   1570   2 14000034   STA   ROTE     1242 0062   1570   2 14000034   STA   ROTE     1243 0062   1570   2 14000034   STA   ROTE     1244 0062   1570   2 14000034   STA   ROTE     1245 0062   1570   2 14000034   STA   ROTE     1247 0062   1570   2 14000034   STA   ROTE     1248 0062   1570   2 14000034   STA   ROTE     1249 0062   1570   2 14000034   STA   ROTE     1240 0062   1570   2 14000034   STA   ROTE     1241 0062   1570   2 14000034   STA   ROTE     1242 0062   1570   2 14000034   STA   ROTE     1243 0062   1570   2 14000034   STA   ROTE     1244 0062   1570   2 14000034   STA   ROTE     1245 0065   1570   2 14000034   STA   STA   STA     1245 0065   1570   2 14000034   STA	125	1	2090	1538	2	14010032		LDAH	BTE3	NUT SET BITS IN BITE WOR
1226 00606   1542   2 30010032   1240 00606   1544   2 6046   1545   2 10010032   10 0240   10 0240   1226 00606   1546   2 24260002   10 010   10 0240   1226 00606   1548   2 64300616   10 010   10 01111   1229 006010   1550   2 140000010   10 010   10 0111   1229 006010   1550   2 140000010   10 010   10 0111   1231 006014   1550   2 140000010   10 010   10 0111   1231 00616   1556   2 14000010   10 0	125	10	000	1540	~	C40000C6		101	9000	BTE3 HITS 0006 = 3
1226 00606   154 2 604C   10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12:		1000	1543	10	35010032		TATA	PTF 3	
1226 00004   1544   2 042000   100 0240	1		0000	1000	, ,	300000			27.0	
1226 00004 1546 2 24280002 0180 1CL 5,2,4 15 IT R0T1 1227 0000C 1548 2 6430061C 100 0181 00 1228 0000E 1550 2 14000010 LUA ROT1 1228 0000E 1554 2 14000014 STA TEMP SAVE PREVIOUS R 1230 00014 1556 2 64023FF AND 16383,4 MASK OFF BITS 3 1231 00014 1556 2 600010 STA R0T1 UPDATE R0T1 1232 00018 1560 2 3000010 O181 LUA R0T2 1234 00018 1560 2 4000010 O181 LUA R0T2 1235 0001C 1564 2 14000010 O181 LUA R0T2 1236 00052 1570 2 64023FF STA TEMP SAVE PREVIOUS R 1237 00050 1560 2 3000010 O181 LUA R0T2 1238 00052 1570 2 64023FF STA R0T2 1239 00052 1570 2 64023FF STA R0T2 1240 00052 1570 2 64020010 STA TEMP SAVE PREVIOUS R 1259 00052 1570 2 640200012 STA TEMP SAVE PREVIOUS R 1241 00052 1570 2 64020010 STA TEMP SAVE ROT2 1240 00052 1570 2 640200012 STA TEMP SAVE ROT2 1241 00052 1570 2 64020000 STA TEMP SAVE ROT2 1241 00052 1570 2 64020001 STA TEMP SAVE ROT2 1243 00052 1570 2 64020000 STA TEMP SAVE ROT2 1244 0052 1570 2 64020000 STA TEMP SAVE ROT2 1245 0052 1570 2 64020000 STA TEMP SAVE ROT2 1245 0052 1570 2 64020000 STA TEMP SAVE ROT2 1247 0052 1570 2 64020000 STA TEMP SAVE ROT2 1249 0052 1570 2 64020000 STA SAVE ROT2 1249 0052 1570 STA SAVE ROT2 1250 0052 STA SAVE ROT2 1250 0052 STA SAVE ROT2 1250 0052 STA SAVE			0000	1244	v	3400		200	0420	
1226 00004   1546   2 24250002   101   5127   10000   101   1228   1540   2 24250002   101   1						0010				
1227 00+00   1548   2 6430061C   1547   1228 00+00   1552   2 3000010   1228 00+00   1552   2 3000010   1228 00+00   1552   2 30000010   1238 00+10   1552   2 30000014   1552   2 44000038   1238 00+14   1552   2 44000038   1238 00+14   1552   2 44000038   1238 00+14   1552   2 3000010   1238 00+14   1552   2 4000010   1238 00+18   1552   2 4000010   1238 00+18   1552   2 4000010   1238 00+18   1552   2 4000010   1238 00+18   1552   14000034   1238 00+18   1553   14000034   1238 00+18   1553   14000034   1238 00+18   1553   14000034   1238 00+18   1553   14000034   1238 00+18   1553   14000034   1238 00+18	126		0604	1546	2	24280002	0180	ICL	5.2.M	IS 1T ROT1
1228 0060E   1550 2 14000010	126		0600	1548	~	6430061C		760	0181	ON
1229 00610   1552   2 3000011   1549   1540   1554   1540   1554   1555   155	12		9000	1880	1 ?	1400010		100	2011	
1230 00612 1556 2 4000014 519 1577 5345 PREVIOUS F1230 00612 1559 2 4000014 519 519 1577 5345 PROTECT SAVE PR	17.		1000	2000	1	0100001		-		Too morning one
1230 00012 1554 2 14000038 LDA RUTH LOAD NOTON SPEE 1230 00014 1556 2 2 64023FF AND 16383.77 LOAD NOTON SPEE 1232 00616 1556 2 3000016 STA TEMP2 UPDATE ROTI UPDATE ROTI 1233 00618 1560 2 3000016 STA TEMP2 UPDATE ROTI 1234 00614 1562 2 600E UTDA ROTE 1235 0061C 1564 2 14000012 D181 LDA ROTE 1235 0061C 1564 2 14000014 LDA ROTE 1235 0061C 1564 2 14000014 LDA ROTE 1235 0061C 1564 2 14000014 STA TEMP LOAD ROTON SPEE 1235 00622 1570 2 64023FF AND 16583.77 UPDATE ROTE 1236 00622 1570 2 64023FF AND 16583.77 UPDATE ROTE 1240 00628 1576 2 64000014 D182 STA TEMP2 (TEMP-ROTE) 1241 00628 1576 2 64000014 D182 SHU TEMP (TEMP-ROTE) 1242 00624 1576 2 64000014 D182 SHU TEMP (TEMP-ROTE) 1243 00626 1576 2 64000014 D182 SHU TEMP (TEMP-ROTE) 1243 00626 1576 2 64000014 D182 SHU TEMP (TEMP-ROTE) 1241 00628 1576 2 64000014 D182 SHU TEMP (TEMP-ROTE) 1243 00627 1560 2 6206 D183 IS (TEMP-ROTE)	150		0100	1556	v	3000014		A I C	1 N	SAVE PREVIOUS KOIL
1231 00614 1556 2 84023FF AND 16583,M MASK OFF BITS 3 1232 00616 1556 2 3000010 STA R071 UPDATE R071 1233 00616 1560 2 3000010 D182 1234 00618 1562 2 600E 1235 00616 1564 2 14000012 D181 UDA R072 1236 00622 1570 2 84000012 D181 UDA R077 1239 00622 1570 2 84000013 UDA R077 1239 00622 1576 2 24000013 STA TEMP AMSK OFF BITS 3 1240 00628 1576 2 24000014 D182 STA TEMP (UDA R072 UPDATE R072 124 00628 1576 2 24000014 D182 SHU TEMP (TEMP-R07(1)) 1241 00628 1576 2 24000014 D182 SHU TEMP (TEMP-R07(1)) 1243 0062 1576 2 64000014 D182 SHU TEMP (TEMP-R07(1)) 1243 0062 1576 2 64000014 D182 SHU TEMP (TEMP-R07(1)) 1244 0062 1576 2 64000014 D182 SHU TEMP (TEMP-R07(1))	12.		0612	1554	2	14000038		LDA	ROTA	LUAD ROTOR SPEED
1232 0J616   1558   2 30000101   174   174   174   174   175   1	12.		0614	1556	2	84023FFF		AND	16383,M	MASK OFF BITS 3FFF
1234 00618   1560   2 30000016   STA TEMP2     1234 00614   1562   2 600E	12.	-	9190	1558	2	30000010		STA	ROTI	UPDATE ROTI
1234 00614   1562 2 600E	12	115	2140	1560	1	3000016		STA	TEMPS	
1235 00016 1564 2 14000012 0181	10		4140	1563	, 1	2005			2010	
1235 0001C 1564 2 14000012 0181 LDA ROTZ 1236 0061E 1566 2 3C000014 STA TEMP LOAD ROTOR 1237 000622 1570 2 64000038 LDA ROTH LOAD ROTOR SPEE 1238 00622 1570 2 64002014 STA REMP RAJZ UPDATE HOTZ 1240 00624 1576 2 5C000016 STA TEMP (TEMP-RUT(1)) 1241 00628 1576 2 64000014 D182 SHU TEMP (TEMP-RUT(1)) 1243 0062C 1540 2 6206 JG D183 IS (TEMP-RUT(1))	•		4100	2001	J	3000		3	7010	
1236 0061E 1566 2 14000012 0181					,	0010				
1236 0061E 1566 2 30000014 STA TEMP SAVE PREVIOUS R 1237 0062C 1566 2 14000038 LDA ROTTR LOAD NOTOR SPEE 1238 00622 1570 2 84623FF STA ROTZ UPDATE ROTZ 1240 00624 1572 2 30000016 STA TEMP (TEMP-ROTZ) 1240 00628 1576 2 446200014 D182 SBU TEMP (TEMP-ROT(I)) 1242 00624 1576 2 46020020 SBU TEMP (TEMP-ROT(I)) 1243 0062C 1540 2 6206 JG D183 IS (TEMP-ROT(I))	12		2190	1564	N	14000015	0181	LUA	8012	
1237 00622 1570 2 64000038 LDA MOTH LOAU ROTOR SPEE 1238 00622 1570 2 64020012 1238 00622 1570 2 64000015 1240 00624 1572 2 3000016 1241 00626 1574 2 3000016 1241 00628 1576 2 64000014 D182 SBU TEMP (TEMP-HUT(I)) 1242 00624 1576 2 64000014 D182 SBU 32+M IS (TEMP-HUT(I)) 1243 00626 1540 2 6206 1541 00637 1540 2 6206	12.		061E	1566	2	30000014		STA	TEMP	SAVE PREVIOUS ROTZ
1238 00622 1570 2 84023FFF AND 16383.44 MASK OFF BITS 3 1239 00624 1572 2 36000012 STA R017 UPDATE HOT2 1240 00626 1574 2 36000016 STA TEMP2 (TEMP2 1241 00628 1576 2 44020024 0182 SBU TEMP (TEMP-HUT(1)) 1242 00624 1576 2 44020020 JG D183 IS (TEMP-HUT(1))	12.		0620	1568	2	14000038		LDA	HOTH	LOAD ROTOR SPEED
1239 60624 1572 2 3C000012 STA R072 UPDATE HOT2 1240 00626 1574 2 3C000016 STA TEMP (TEMP- 1241 00628 1576 2 E4020020 SBU TEMP (TEMP-HUT(I)) 1242 00624 1576 2 E4020020 JG D183 IS (TEMP-HUT(I))	12		0622	1570	^	BADZBEFF		DNA	16383.M	MASK OFF HITS 3FFF
1240 00626 1574 2 3000016 5TA TEMP2 (TEMP-HUT(I)) 1241 00628 1576 2 £4000014 0182 5BU TEMP (TEMP-HUT(I)) 1242 00624 1576 2 £4020020 5BU 32*** IS (TEMP-HUT(I)) 1243 0062C 1540 2 6206 5G	12		2624	1272	10	3000002		STA	P.012	UPOATE HOTS
1240 00626 1574 2 50000014 0182 85U TEMP (TEMP-HUT(I)) 1242 00624 1576 2 44020020 58U 32*M (TEMP-HUT(I)) 1243 0062C 1540 2 6206 JG 0183 IS (TEMP-HUT(I))	130		1700	1216	u i	7100000		2 4 4 4	2000	OF DATE ROLL
1241 00628 1576 2 £4000014 0182 SBU TEMP (TEMP-RUT(1)) 1242 00624 1540 2 6206 JG D183 IS (TEMP-RUT(1))	77		9290	12/4	v	3000016		4 -0	LEMPA	
1242 00624 1576 2 £4020020 58U 32*M 1243 0062C 1540 2 6206 J6 D183	124		0628	1576	2	E4000014	0182	SHU	TEMP	(TEMP-ROT(I)) I=1 0R 2
1243 0062C 1540 2 6206 JG D183	124		0624	1578	2	E4020020		SBU	32 · M	
2000	124		3640	1540	^	6206		9	0183	15 (TFMP-ROT(1)) <32)
	21 Contraction		1	-	J	0000		)		ים נוביי יים ווים ווים בים
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DECK NAME=\*HTEXEC\*

VERSION K20A0503

SOURCE YES: TEMP=RUI(1) I=1 OR 2 IS HMIN .GE. TEMP	TES  IS TEMP .GE. KMAX  TEMP=B2  IS IT ROT1  YESS RICT=TEMP-KOT1	RICT=HICT+1	YES: BTE3=BTE3 .0R. B15  IS (RICT .6E. 24)  YES: BTE3=BTE3 .0M. B14  IS ITER = 0 YES IS ITER = 16 YES	RUT1*0.5 SECUND SRT1=SRT1*RUT1*0.5 SECUND
TEMPS TEMPS TEMPS TEMPS	FEAP REAL 0185 0185 0185 0185 0185 FEAP ROTI	1644 1612 1612 1613 1613 1613 1613 1613 1613	B1E3 615 81E3 81E3 81E3 6245 97E3 814 814 81E3 11ER 0246 0247	00HLF+2 SRT1 SRT1
STA LUA SBU	SECTION OF	SBU SBU STA	SEUA SEUA SEUA SEUA SEUA SEUA SEUA SEUA	CXF CXF CXF STA STA
0183	0184	0186	0245	0247
PHOCKAM 14000016 3C000014 140000014 E4000014	0000 0000 0000 0000 0000 0000 0000 0000 0000	07000000000000000000000000000000000000	032 032 032 032 032 033 032 003 000 000	700 0002 0002 0000
20000				
1582 1584 1584 1586 1588	1594 1594 1594 1600 1600 1600 1600 1600 1600	1616 1616 1620 1620 1624 1624 1630 1630 1631	1659 1659 1659 1659 1659 1659 1659 1659	1664 1664 1666 1670 1670
ADRES 0062E 0063C 0063C	00000000000000000000000000000000000000	000654 000654 000654 000658 000658 000658	000664 000666 000666 000667 000674 000674 000674	00067E 00068C 0068C 0068C
LINE 1244 1245 1246 1246	255 1255 1255 1255 1255 1255 1255 1255	1265 1265 1265 1266 1266 1266 1269 1270	1272 1274 1274 1276 1276 1276 1278 1280 1281 1283 1284 1284 1284 1284 1284 1284 1284 1284	1286 1286 1288 1289 1290 1291
DIAGNOSTICS	GENERA TED	GENERATED	GENERATED	GENERATED GENEWATED

PAGE 34																																			
	SOURCE	RUT2*0.5 SECUND	SH12=SH12+HU12*0.5 SECOND	04C 04T4=12% 0ATA	COC CATALLICA DATA	000 UNIVERSITY OF THE PROPERTY	USE DAIA=120 DAIA		PUT AHRS FLAG IN A REG	IS AHKS FLAG=0		LHEU=HEOL			0 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	13 DIE4. MO.014-0	YES: LMED=06C UATA			IS BTE4.AND.615=0		TEST LPCH=UND DAIA		15 BTF4. AND. H16=0		YES: LMOL=U6E UATA		B1E4. AND. 768		INITIALIZE XM4 AND XMS FOR DO LOOP	000000000000000000000000000000000000000	LOAD H REG WILL OS(I) DATA TED-2	PUT MOVILL IN A REG. I= X OR Y OR Z	SAVE IT	MIN PUTTING OF THE VIEW
	ROTZ ZEHO	ONHLF+2	SK12 SK12+2 SR12	124+1	128+1	120+1	C063+2	C063		0251	HEUL	LHED	1624	91E3+1	814	U636A	060+1	LHEO+1	815	D2528	0400.1	LPCH+1	BTE3+1	616		06E+1	HTF3	768.4	0580	F.0.4	5.0.M	050+1-5	8	TEMP	5.050
	LOBA	CXF	STA	LDAH	LUAH	LDAH	LDA	LOB CFX	EAB	3	LOA	STA	200	LUAH	AND	5	LUAH	STAH	AND	3		STAH	LDAH	ANO		LOAH	NAC .	AND	25	LOX	LOX	LOAH	SLLD	STA	LOA
				0520							0251			0252				A5550	2000				02528				4500					U254A			
DECK NAME=*HTEAEC*		0480	30000000	14016FFY	14016FFB	14016FFU	14000136	54000134	0200	6102	14000110	30000022	0070		8400001A	0700	140100BF	30010023	84000010	6106	0700	30010025	14010033	8400001E	0010	14010093	14000032	84020300	6152	0700 5C220000	SC2A0000	14000010	0808	9700	15800086
#= #	_	~ ~		200	000	200	00	20	12	20	v ~	~		2 5			2		10	2		· ~		20		~ ~			2	~	20	2	12	~	nn
CK NA	040RES 1676 1678	1680	1666	1690	1691	1698	1702	1704	1707	1708	1710	1712	1/11	1716	1718	77.	1724	1724	1728	1730	. 13.5	1734	1736	1736		1742	1746	1748	1750	1752	1754	1754	1760	1762	1764
a,							00646				OUGAE	00000	74900			99900		00000			2000	90900		00000		006CE	00000	0000	90900	90900	006UA	COSOF	000E0	006E2	00054
A0503	L1293 1294 1294	1295	1298	1300	1302	1304	1306	1307	1309	1310	1312	1313	101	1315	1316	1161	1318	1319	1321	1322	1 15.3	1324	1325	1326		1328	1330	1331	1335	1333	1334	1335	1337	1338	1339
VERSION K204050	DIAGNUSTICS	GENEMATED	,										GENERATED	27.00		GENERATED					GENERATED				GENERATED					GENERATEU				GENERATED	

~ ~	STA TEMP2
20	STA TEMP2
2	SBU 256.4
00	JN 0255
2 0	
0 0	STA BT63
2	
2	JN D271
0	
2	LDA 256+M
•	_
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2	CAF ZEAU
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: :	STH TOVE
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	300
	EXO MSK+M
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_	٦٢ 0511
-	LUA BTE3
0 1	JGU 0280
-	
	9. •
(2 ×	PTR DVXG
0	JU 0300
	LDX 5.0.M
	STAH 053+1+5
	SBU C30523

VERSION K2040503 DECK NAME=\*HTEXEC\*

1387 00740 1388 00744 1389 00744 1391 00748 1393 00746 1395 00754 1395 00754 1396 00754 1397 00754 1398 00756 1398 00756 1398 00756 1400 00758 1401 00756 1405 00766 1405 00766 1405 00766	000017440 0000774440 0007744440 0007777777777	11 14 14 14 14 14 14 14 14 14 14 14 14 1	ananananananananana ar	940000F0 860000AE 1400003U 1400003U 86430075U 1400001 14000001 1400001 1400001 1400001 1400001 1400001 1400001 14000001 14000001 14000001 14000000001 140000000000	0291	STAPE	CD46+4 F304 F304 BTE1 BTE1 BS15 BS15 BS15 BS15 BS15 BS15 BS15 BS1	HESIN(I)+RBIAS(I) HESIN(I)+RBIAS(I)+0.75 I=1.4 IS R/D BIT OF BIE1.1 YES! TEMP=RES(I) I=1.4 IS SIOL (I) BIT OF BTE4=1 YES! TEMP=RES(I) I=1.4 TEMPZ=RES(I) I=1.4 RES(I)=TEMP TEMPZ-RES(I) IS (TEMPZ-RES(I)) IS (TEMPZ-RES(I)) IS (TEMPZ-RES(I))
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0076C 0077C 0077Z 0077Z 0077Z 0077Z 0077Z 0077Z 0077Z 0077Z	9000 1900 1900 1900 1910 1910 1910 1910	~~~ ~~~~~~~	FC000018 6308 0700 1400032 C400000 3C00032 1400032 6C000003 C4000018 3C00032	0293	0.05	TEMP4 10294 0294 8163 8163 816 816 816 816	IS ABS(TEMP2-MES(I)).GE.1.0 YES: ANY GIMBAL RATE BIT OF BTE3=1 IS ANY GIMBAL RATE BIT=1 YES: GIMBAL SPIN BIT OF BTE3=1
	00782 00784 00786 00788	1922 1924 1926 1930	INNVNN	6C2A0004 6C2A0004 6430078C 6002	D295	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.2.4M INCREMENT 4.44.4M CHECK FOR 1.030.0 0.290.A BYPASSED RESULVER CHECK CODE	INCREMENT FOR NEXT PASS CHECK FOR END OF LOOP R CHECK CODE
30,74,78	00078E 00078E 000790 00794	1932 1934 1936 1940 1940	~~~~~	0700 14010031 8C000008 64300798 1400001C 3C000038	0300	SA4 LOGU STA	BTE1+1 B5 D3v1 ZERO CIPM D310	LOAD A REG. WITH BIEZ IS INPUT POWER BIT OF BIEZ=1 YES: CIPM=0
431 433 433 434	00798 00794 0079C 0079E	1944 1946 1948 1950	~~~~	0700 14000038 A4000000A 3C000038 64040000	0301	LDA ADU STA JS	NOON T MUT T	CIPM=CIPM+1/32 (ONE=SCLH 0.03125)

PAGE 37

SOURCE

DECUR

END

DIAGNUSTICS LINE ADRES DADRES LC PRUGRAM 1435 00740 1952 2 74000004 1436 DECK NAME = \* PTEXEC\*

VERSION K20A0503

STATISTICS

TOTAL SHORTS 181
TOTAL LONGS 754
TOTAL LONGS 754
TOTAL LONSTRUCTIONS 935
PERCENT SHOPT 194
GENERATED NOPT 124
GENERATED NOPT 126
THEORETICAL PERCENT NOP LOADING 9.0
ACTUAL PERCENT NGP LOADING 6.6

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PAGE				£ £4£
				1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
				1075 1046 1346 1346
				1972 1982 1330 1330
	756			1425 1425 1137 1325
	754			1320 1320 1320 1320
	752			11065 11170 11170 11170
SKC 2000 CRUSS MEFEMENCE DICTIONARY OF UCCUMMENCES FEMENCES	0.57			7,000 11 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CE DIC	929			10000 10847 10847 11878 1414 1413 1413 171
FEREN	340	1144		1055 1086 1085 1077 1077 1412 1412 1104 694
USS NE	140	1129		1065 1065 1275 1375 1273 1418 669
CONTEN	1153	818		1052 1062 1057 1224 1369 728 728 1316 1316 1316 1517
SKC 2000 CRUSS LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	1152	776 781 781 791 795 817 817 817	367	1050 1040 1040 1222 1367 1368 1368 1274 1074
UMBERS INEO H				
LINE N	128 134 163	164 338 328 328 318 774 774 776 173 173	33332 33332 34322 34323 3432 343 343	3.05 3.05 3.05 3.05 3.05 3.05 5.05 5.05
řī.				
EC.			× 2	
NAME=*PTEXEC* VARIABLE NAME	ALT ANGL APPOIC	4440 4440 460511 460511 46051 46051 46051 46051 46051	2 4 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 TE
LC	4 - 2 -			
S S E		10 4 4 5 10 0 0 0 11 N 2 N 4 N	4444 - 44	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
ADDA	242 16 28 28 335 32704	84 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	NOEF INC. 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 v v - a a a a a a a a
XREF 1 RELATIVE OH SET HEX	000F2 00010 0001C 00150 07FC0	0015C 00036 00022 00224 00244 0026C 00244 00000 00000	7	00000 00000 000012 000012 000014 000016 00016 00016

XREF	DECK	NAME = +RT	=*RTEXEC*		SKC	2000 CH	N 550	SKC 2000 CROSS MEFEHENCE DICTIONARY	E DICT	IONARY					PAGE	2	
OR SET V	VALUE) DEC BIT	2	VARIABLE NAME	LINE NUME DEFINE	LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	CURREN	CES										ine 11
00000	,			306	163	7.10	2.00	1361									
90000	, «		74	296	1361	1	200	1330									
90000	000	15	95	297	1213	1426											
0000A	10		99	298													
20000	27	20	0 1	662	1006	1347											
00010	16		69	301	603	266											
****ONDEE	NEDOSSO		CDPU		1139												
00104	260		con	548	365	546	0.75	000	673	67.1	577	207	000	103			
20000	3,4		×100	316	200	240	0 * 0	466	203	110	110	100	256	146			
00000	10		COUJMP	365	245	233											
90000	•		CDUSI	314	539	645	695										
90000	00 00	- 0	CDUSS	315	540	555	558										
00110	284		CDUZO	560	553												
00124	262		CDUZI	564	295												
0012C	300		05003	895	551												
00132	306		CUU31	571	267												
00134	308		C0040	275	950												
0014A	330		CDU42	585	578												
00152	338		C0043	589	585												
0003C	09		CD01	225													
04000	49		C002	556													
44000	90		CD03	227													
0000	27		CD05	220													
05000	08		CD06	230													
00054	49		2000	231													
85000	88		CDUB	232													
25000	26		6000	233													
00000	900		5010	234													
0000	104		C012	236													
29000	108		C013	237													
00000	112		4100	238													
0000	170		5015	240													
0000	124		C017	245													
00000	128		CD18	243													
9000	132		6103	544													
50000	135		0000	542													
05000	140		CD22	247													
76000	140		5053	548													
86000	152		CD24	543													
26000	155		CD25	550													
000040	160		5056	251													
0000	100		2000	253													
00040	172		6202	524													
00000	176		CD30	552													

																																										949					
IUNARY																																									,	100					
E DICT																																									71.7	101					
SAC 2000 CAUSS MEFEMENCE DICTIONARY OF OCCUPAENCES																														1307											745	60)					
CES ME																														1306		1433									544	200					
CCUPAL	NCES																													1141	1611	1431									643	600					
SAC NS OF U	DEFINED REFERENCES														1387													1143	1141	1140	1150	1459						743				920	1114		. 16.	1366	
SNC 2000 CAUSS	DEF INEO	556	257	955	560	261	242	263	564	566	267	268	270	271	27.5	273	274	2/2	277	278	27.9	281	282	263	584	283	287	288	583	062	133	65	171	192	144	195	197	6.5	20	15.	131	141	445	145	143	1111	
SHIEKEC*		CU31	2032	034	0.35	.036	5037	บวล	66039	040	C041	2502	500	C045	0400	1047	8400	640	150	052	.053	1054	:055	950	/502	950	000	1901	2900	:063	105	CIPM	2	CA01	CMD 4	C 404	UNCOM	141	1742	C1x3	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CI	C10523	2	3	130563	
A VE = 8	CC	•			5				5								0		, ,			2		0	·	,,	2	0	0	00	,,		7 0	200		11 0	2	3	1	3.	- :	, ,	2 5	2 7	1	20	-
ADDMESS VALUE)	DEC PIT	180	101	142	196	500	504	203	212	516	250	422	242	236	240	544	540	252	250	507	266	272	515	280	592	200	236	300	304	308	215	25	15	0,1	1 4	25	0	28	†	92	, ,,		170	00	*	501	
RELATIVE TON SET	HEX	PH000	00000	00000	40000	00000	00000	00000	\$0000	80000	20000	00000	0000	DOOEC	000F0	000F4	64000	2000	00100	00100	00100	00110	00114	00116	00110	00150	00128	00120	00130	00134	20000	00038	20000	00000	00000	00034	00000	25000	50000	95000	*******	000ZE	00000	00032	000036	000034	

PAGE

KREF 1 DECK		HAME = WATE XECO		SAC	2000	CHUSS	SAC 2000 CAUSS REFERENCE DICTIONARY	NCE DIG	CTIONAH	**					PAGE	
VALUE	911 LC	VAZIABLE NAME		LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	OCCURRI ENCES	ENCES										
000064 223	1	2	158	165												
	1 :	AIA	57													
	;	0.4.1 0.5.4	188		931	740										
		DEC	12													
lo	2	DECOUM	368													
	-	DECDR	313	823												
	2	DECD	423		421											
4.4	5	DELT	221													
	31	DEONE	215													
000 150		90	153							200	-	,,,,	220	330		
	•	UNAERA	125						0 7 0	000	*21	471	130	136	136	
00000 IJ	1	DASAV	316						610	611	612	159	659	673	675	
				676	678	752	693	702	703	104	108	710	111	713	121	
	*	VONO	32													
97 8	4	ОРНУ	33													
	4	2740	31		1172											
	4	UNEV	14	1163												
JNDEF INED*	000	DUMY														
0003E 92	4	DVX	75													
	1	OVAG	82	1377	1373											
	1 .	200	43													
	. 1	DVTG	62													
0,000	1 1	200	100													
	, ^	0700	000													
	u ~	0000	040	334												
	10	2000	852													
	2	6000	855													
	V	0010	858													
	V	1100	862													
	00	0015	474													
	1	0017	778													
	2	0050	881													
	~	0021	1887													
	2	0022	892													
	~ '	0063	161													
	v	0030	640													
	V .	0031	056													
•	00	2003	156													
	40	0035	956													
	10	0035	973													
-	2	0000	776													
-	NI NI	0020	086		965	972	916									
-	2	0600	1021													
-	2	1600	1057													
-	2	2600	1067													
004EC 1250	2	0093	1017	1069												
-	~	7600	1087													

DICTIONARY																																														
SAC 2000 CAOSS REFERENCE DICTIONARY	LINE NUMBERS OF OCCURRENCES UEFINED REFERENCES	1097	1105	1113		40A 00A	1102	1110	1122 1135		1149	1150	11 74	1183	1181	1182	1307	1511	1218	1221	1221	1234	1243		1256	1215 1225 1260		1262	1663	1310	1317	1322	1311	1314 1327		1345		1351 1365		+3+1	1392	1397	1405	1411	1417	
	LINE NUMBE UEFINEU	1100	1109	1115	152	555	1118	1119	1139	1150	1152	1169	1170	1135	1163	1206	1001	1215	1220	1226	1235	1541	1561	1755	1261	1264	1281	1284	1300	1312	1320	1325	1315	1330	1346	1353	1367	1370	1373	1351	1365	1400	1410	1415	1420	223
JAME = * TEXEC*	VATIABLE NAME	5600	9600	2000	51	55010	0100	0150	0155	0157	0158	0160	1910	01644	0164	0165	0165	0170	017	0160	0161	0162	0143	1145	0166	0570	0245	0246	054	1251	0255a	02525	0636	4570	0255	0500	0270	0271	0820	0000	1620	2620	0293	2594	0595	03032
	VALUE) DEC BIT LC	1305 2	1324 2	13.4	10	6 25	1340 2	1342 2	1362 2	1402 2	1400	14.36 2	2 0550	1431	146+	1510 6	5 5161	200	153+ 2	1545 2	156+ 2	1576 2	1586 2	1502	1414	1620 2	1654 2	1656 2	2 2991	1710 2	1726 2			1746				1622 2	1836 6	2 0+81	147	1842	1902	1912 2	1982 2	55
XHEF 1	COM SET V	0051A	0052C	00536	0000	00034	00530	0053E	26500	00574	9057E	36500	00540	00500	96500	00556	005E8	0055	OUSFE	0060A	00610	00628	00632	00052	00045	00654	92900	00674	0057E	005AE	000985	006CB	100000	00002	0000	006FC	00718	0071E	92100	00733	00750	00754	00756	00778	00782	00038

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XREF 1	DECK	NAME	=**TEXEC*		SKC	5000 C	AUSS RE	SKC 2000 CHUSS REFERENCE DICTIONARY	E DICT	IONANY					PA	PAGE	9
CON SET	VALUE		VATIABLE NAME	LINE NUMBERS OF OCCURRENCES	U S OF O	CCURRE	NCES										
HEX	0EC H11	2		DEF INED	REFERE	VCES											
0075C	1932	2	0300	1425	1340	1423											
86200	1944	~	0301	1431	1427												
00015	1950	u o	U310 E16HT	210	1430												
000016	42	-	ERACMI	322	513	619	617	099	289	984	721	723	743	145			
00820	30720	3	CAEC	468													
00035	20	-	EXNO	336	511	513	527	999	160								
07800	30720	•	EXUNG	5 00	105												
40000	30760	2	CA00	904	200												
07446	30790	. ~	FX304	525	195												
07836	30774	, 0	£ x30	517	529	949	762										
0784E	30799	~	EX70	530	531												
2000	156	~ '	<u>.</u>	154													
84000	100		53	155													
00000	200	- ^		450	1054												
90000	214	10	FAILMS	471	673	714											
****ONDEF	_		FENT		570												
000CA	202	~	<b>F</b> F	107	198	1030	1033	1161									
20000	210	~	FFFD	465	1071												
\$6000	200	v 0	1	994	1001												
00000	202	0 ~	FF0F	701	2501												
20000	220	2	FF3F	470	1188	1199											
DOOEC	230	2	F612E4	614	929	758											
00015	30	ר ת	FO.15	207	1410	145	4										
000CE	506	2	F00F	463	1901	;	200										
000AE	174	~	F 304	177	1388												
00012	19		SASCJM	369	811												
ONDE E	2		GASC		369												
00050	1 0		1.7.	34	200	7 1	100	206									
+7000	35		HCT#	329													
05000	00	4	нови	5	1159												
00110	272		4EDL	280	182	1315											
0000	2 9	~ =	TOF O	100	1136												
91200	536		I-4SK	11	505												
34000	140	~	IMUMSK	455	1001												
07F A 0	32672		INTOPE	10	15												
00220	926	~ (	1N104	108	11												
DOIEA	240	~ ~	14105 14105	504	000												
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285-40   10   154   70   70   70   70   70   70   70   7		~		765	761								
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342 2 NOTRED 614 403 2 NHOI 625 414 2 NHOE 531		•	MORSET	254	521								
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414 2 NAO2 631		7	10501	659	170								

RELATIVE 1	E ADDRESS VARIAL	NAME .	-*HTEXEC*		SKC 2000 CROSS LINE NUMBERS OF OCCURRENCES	2000 CCURR	CHOSS F	SKC 2000 CROSS REFERENCE DICTIONARY OF OCCURRENCES FLERENCE	CE DIC	TIONAR						PAGE	•	
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	450	2	NRD4	959	652													
0010A	474	2	NAUS	663	661													
90000	•	0	NI W	202														
0000	20.		.00	157														
0000DA	219	- ~	UFFF	694	1051													
90000	214	~	0660	467	471	1064												
00014	50	=	O.4AX	196														
00028	0 4	20	OMEG	219														
***	200		#01-0	300	617			717	177	130	744	0.4	67.7	040	975			
40000	0	•	ONE	100	1192	1203	1265	1268	1432	031	901	1		000	0.00	6011		
00000	32	3	ONHLF	217	1289													
80000	515	~	OUFF	468	985		1022	1026	1038	1045								
90000	199	~	9000	654	1223													
000AC	116	1 .	*15	7 7	66)	1601	107	118/	1190	1198	1001							
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44000	101	, 1	025	606														
0000	162	1	023	200														
0000	101	1	024	3.5														
00000	205	t	025	108	800	1018	1125											
96000	150	t	030	82														
86000	152	1	031	93														
0000a	154	1	032	49														
26000	156	1	033	35														
36000	154	1	034	90														
00000	100	1	035	18														
98000	134		417	2 2														
88000	130	*	540	5,2														
10000	174	1 3	040	2 5	300													
41000	180	t	14E	5	200													
57000	114	,	046	10	856	414	917											
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92000	1113	1	0.41	99	106													
82000	021	1	240	10														
0000	166	* :	543	200														
000075	126	, ,	345	70														
00000	140	1	0+0	11														
00000	125	3	0.47	11														
26000	130	1	0+0	12														
0008€	132	1	74.4	13														
20000	510	1	USA	711														
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97000	200	1 1	050	100	1000	1345	1330											
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0000	195	1		100	1044													
29000	165	,	153	101	1354													
00095	140	4		102														

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100   100	104	214	t	650	115							
12	1EA	434	1	100	154							
144	) EC	230	1	540	125							
144	JAE .	145	t	290	78	1301	1318					
14c	061	144	t	nen	52	1303	1323					
220	261	140	1	056	90	1305	1328					
220	22	502	*	040	103	1050	1157	1160				
222	+0	212	t	200	113							
224	20	550	t	063	11.							
227	20	556	t	590	118							
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232	77	977	t	000	150							
122	+	663	t	190	121							
17.	153	630	1	600	152							
177		636	t	550	163							
174   2   175   2   2   2   2   2   2   2   2   2	09	51	1	170	45	830						
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184	34	23	1	147	0,1	1115	1173	1180				
186   2   447453   457   1105   1197   1297   129	36	60.	*	-01	[7	1151	1193	1202	1204	1506	1209	
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24 7 451 135 134 1145 1146 1403 1403 1403 1403 1403 1403 1403 1403	50		1	7	177	1195	1130	119				
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56 1 4014 361 1240 565 1650 1650 1650 1650 1650 1650 1650		35/40		26.100	,	501						
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56 1 HOT- 339 1119 1215 1230 15 4 4011 26 1242 1254 15 4 4012 26 1242 1254 1262	00	0	11	****	360	1620						
33 1119 1215 1230 26 1226 1234 13 4 40172 26 1225 1239 1265	20		ν.	2.5	361	1546						
15 4 4011 26 1228 1232 1253 1254 1262 1734 1262	33	20	-	101	339	1119	1215	1230	1237			
13 4 4316	10	٥.	*	101	56	1668	1232	1250	1200			
	14	-	*	4312	27	1235	1534	1562	1293			

ELATIVE	DECK NAME=*HTEXEC*	E=*HTEXEC*			SKC	2000 CH	OSS RE	FERENC	SKC 2000 CHOSS REFERENCE DICTIONARY	ONARY					ā	PAGE	AFAL Volum	AFAL-
TOR SET	VALUE) DEC 017 LC	VARIABLE	E NAME	LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	REFERE	CCURREN	CES										e II	TR-77
07FE0 00034 00035	32736	HTNOKG HTCT A2CT		33.1	491 1259 1263	492 1264 1267	1266	1275										-8
	2640			159	342	25	600	5										
6000				132	170	213	500	706										
6FE2 0012	28642 10	SIOL		344	998													
9000				170														
00028	2 0 0 1	SOULIN		380	9 2 8	2												
0000	-			172		3												
00014 20	20 S	SPINGS		370	1907													
10024		SRA		139	168	169												
00000				25	789	1230	1531	1292										
70000				53	1597	1248	1599											
29000	1/8			440	756													
0003E				145														
0000AC	172 2			944	944													
2000				146														
94000	2.2	53		147														
0003A	2,4	TOVX		340	1359	1360	1378											
JFFE.	16362	TEMCOR			462													
91000		-		184	979	848	843		1540 1	1244 1	1341 1	1350 14	1401 1404	,				
00018	.2	-		185	1356	1361	1407											
10014		T M		183	1001	1004	1004								1090			
					1093	1124	1126	1131	1133	1354	1236 1	1241 121389 1	1245 1247	7 1249				
2H000	188 2	-		454	966													
00014	1 25	152		212	546													
0000E				506	289	1220												
000CZ		14TY		457	1089													
95000	68			25	206	906	016	116										
1012C	300	2.3		30	1434													
00000	112 4	-		55	956	973												
10150	335 7	IMI		161	163	164	166											
BONDO	00000	TORK			101													
OFFAA	32667																	
07F54				92														
00000		-		502	256	999	887											
00050	7 200000			53	77.5													
	9			354	501													
00174		VECT		102	5.5	205	254	245	908	909	810	812						
24000	15 4	>12>		91	1166	1171												

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PAGE		1114
		1110
		895
		981
		824
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IUMARY		767
E UICT		111
FERENC		538
055 KE	CES	210
SAC 2000 CHUSS MEFEMENCE DICTIONAMY	CCURRE 4	488 510 538 777 767 798 824 881 895 1110 11118
SKC 2	OF OC	215
	LINE NUMBERS OF OCCURRENCES DEFINED REFERENCES	213
JECK HAME = *HTEXEC*	VAMIABLE NAME	WLDCOM ZENO
"LAME =	27	4.7
JECA ADURESS	DEC HIT LC	0 5
XREF 1	HEX SET VALUE)	00000